

SEQUENCE LISTING

<110> ROSETTA GENOMICS LTD

<120> BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VIRAL REGULATORY
GENES AND USES THEREOF

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<160> 46755

<170> PatentIn version 3.2

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<400> 1

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<213> Saimiriine herpesvirus 2

<400> 92

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<210> 93

<211> 80

<212> DNA

<213> Saimiriine herpesvirus 2

<400> 93

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gggatgattg tgggtactc 80

<210> 94

<211> 87

<212> DNA

<213> Saimiriine herpesvirus 2

<400> 94

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<210> 95

<211> 68

<212> DNA

<213> Saimiriine herpesvirus 2

<400> 95

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<210> 96

<211> 66

<212> DNA

<213> shrimp white spot syndrome virus (white spot bacilliform virus)

<400> 96

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<210> 97

<211> 130

<212> DNA

<213> shrimp white spot syndrome virus (white spot bacilliform virus)

<400> 97

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 aggagaaatc tcggt 75
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 <211> 130
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 80
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 69

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 <211> 64
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 <211> 61
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <212> DNA
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 <211> 117
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<213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 109
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 <211> 67
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 86
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <210> 116
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 <210> 118
 <211> 85
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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<213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 119
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 <210> 120
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <210> 121
 <211> 117
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <210> 123
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 67
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)

<400> 133
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 <211> 64
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 <211> 72
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<213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 86
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 92
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<213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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<213> shrimp white spot syndrome virus (white spot bacilliform virus)
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<213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 agatatattg gatgaagata ctgtacatcc tga 93
 <210> 179
 <211> 77
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 179
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 ataaagcgtt tctgaga 77
 <210> 180
 <211> 118
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 180
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 <210> 181
 <211> 80
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 181
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 <210> 182
 <211> 100
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)

<400> 182
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 <210> 183
 <211> 70
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 183
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 cgtccctaga 70
 <210> 184
 <211> 78
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 184
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 acatgtgttt atcgttta 78
 <210> 185
 <211> 77
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 185
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 gagtgggtggc cgagtta 77
 <210> 186
 <211> 74
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 186
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 <210> 187
 <211> 70
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 187
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 gttttctgta 70
 <210> 188
 <211> 131
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 188
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 attttatgc a 131
 <210> 189
 <211> 100
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)

<400> 189
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 <211> 70
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 100
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 191
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 <210> 192
 <211> 73
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 192
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 gtcatttctg gaa 73
 <210> 193
 <211> 85
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 193
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 tggcgtccat gtgtatctgg ctgaa 85
 <210> 194
 <211> 93
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 194
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 ttctttaat acatcataat agattggtgt cga 93
 <210> 195
 <211> 70
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 195
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 attccaacga 70
 <210> 196
 <211> 83
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 196

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 ccagtccatg aagatatgcc aga 83
 <210> 197
 <211> 113
 <212> DNA
 <213> Simian virus 40
 <400> 197
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 ccagggtccc cagcaggcag aagtatgcaa agcatgcac tcaattagtc agc 113
 <210> 198
 <211> 73
 <212> DNA
 <213> Simian virus 40
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 <210> 199
 <211> 73
 <212> DNA
 <213> Simian virus 40
 <400> 199
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 <211> 65
 <212> DNA
 <213> Autographa californica nucleopolyhedrovirus
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 <210> 201
 <211> 108
 <212> DNA
 <213> Autographa californica nucleopolyhedrovirus
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 aatgtattaa agagattgaa agcgcgtacg gcgtgcgtga tcgcggca 108
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 <211> 70
 <212> DNA
 <213> Avian leukosis virus
 <400> 202
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 caggcgcatg 70
 <210> 203
 <211> 75
 <212> DNA
 <213> Avian leukosis virus
 <400> 203
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cggtcgctag gtgtg 75
 <210> 204
 <211> 93
 <212> DNA
 <213> Bovine leukemia virus
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 gtcactcagt catttttat agccgattgg ggt 93
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 <211> 82
 <212> DNA
 <213> Bovine leukemia virus
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 ggggcgattt ctgcagctg tg 82
 <210> 206
 <211> 86
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 206
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 gagggcttgc ttacgaatt tcgctt 86
 <210> 207
 <211> 78
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 207
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 <210> 208
 <211> 78
 <212> DNA
 <213> Callitrichine herpesvirus 3
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 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 209
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 ggcaacgt 128
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 <211> 93
 <212> DNA
 <213> Callitrichine herpesvirus 3
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 <211> 123
 <212> DNA
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 cct 123
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 <211> 100
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 212
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 <213> Callitrichine herpesvirus 3
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 <212> DNA
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 <211> 127
 <212> DNA
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 <212> DNA
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 <213> Callitrichine herpesvirus 3
 <400> 217

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 <211> 131
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 gggcggccgg g 131
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 <211> 93
 <212> DNA
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 <211> 117
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 <213> Callitrichine herpesvirus 3
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 <212> DNA
 <213> Callitrichine herpesvirus 3
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 <211> 130
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 cacgattaag 130
 <210> 223
 <211> 130
 <212> DNA
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 <400> 223
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 <211> 131
 <212> DNA

<213> Callitrichine herpesvirus 3
 <400> 224
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 <210> 225
 <211> 76
 <212> DNA
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 acctgcata cacgtt 76
 <210> 226
 <211> 83
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 226
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 <211> 66
 <212> DNA
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 <210> 228
 <211> 109
 <212> DNA
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 <210> 229
 <211> 117
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 <211> 85
 <212> DNA
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 <211> 77
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<212> DNA
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 <212> DNA
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 <211> 130
 <212> DNA
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 <212> DNA
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 <210> 259

<211> 109
 <212> DNA
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 <211> 82
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 <211> 123
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 aataaatgca g 131
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 aatgttcgtg tagcatttaa aacacactgc gtgattgc 98
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 <211> 95
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 <211> 107
 <212> DNA
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 <212> DNA
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 tacttacatc acagccgata ttggcgaca 89
 <210> 286
 <211> 86
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 ccgatgcgag caccgcgtca cgttca 86
 <210> 287
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<212> DNA
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 <212> DNA
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 ggatgatatt gttaaacaag gcaaca 86
 <210> 289
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 aa 122
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 <211> 74
 <212> DNA
 <213> Equine herpesvirus 4
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 agctattaa gtcg 74
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 <211> 74
 <212> DNA
 <213> Equine herpesvirus 4
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 aacagtctt accc 74
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 <212> DNA
 <213> Equine herpesvirus 4
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 <211> 98
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 <213> Human adenovirus E
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 <211> 64

<212> DNA
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 <211> 74
 <212> DNA
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 <211> 96
 <212> DNA
 <213> Pothos latent virus
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 agggctatag ccaaagtggg attacttaag aggagt 96
 <210> 297
 <211> 101
 <212> DNA
 <213> Pothos latent virus
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 gaacaactcg ctattgaacg tgacctgatg aattggactc c 101
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 <211> 109
 <212> DNA
 <213> Pothos latent virus
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 <210> 299
 <211> 120
 <212> DNA
 <213> porcine enteric calicivirus
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 <212> DNA
 <213> Murine adenovirus A
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<213> Cryphonectria hypovirus 3
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 <210> 302
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 <211> 66
 <212> DNA
 <213> Myxoma virus
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 <210> 306
 <211> 118
 <212> DNA
 <213> Myxoma virus
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 <212> DNA
 <213> Myxoma virus
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 <211> 130
 <212> DNA
 <213> Rabbit fibroma virus
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 <212> DNA
 <213> Rabbit fibroma virus
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 <211> 131
 <212> DNA
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 <211> 75
 <212> DNA
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<212> DNA

<213> Rabbit fibroma virus

<400> 315

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<210> 316

<211> 130

<212> DNA

<213> Human herpesvirus 5

<400> 316

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gttagcgtgc                                     130
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<211> 93

<212> DNA

<213> Human herpesvirus 5

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<210> 318

<211> 94

<212> DNA

<213> Human herpesvirus 3

<400> 318

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<210> 319

<211> 118

<212> DNA

<213> Human herpesvirus 3

<400> 319

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<210> 320

<211> 85

<212> DNA

<213> Human herpesvirus 3

<400> 320

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<210> 321

<211> 107

<212> DNA

<213> Saimiriine herpesvirus 2

<400> 321

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<211> 74
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 <213> Saimiriine herpesvirus 2
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 <211> 109
 <212> DNA
 <213> Saimiriine herpesvirus 2
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 <211> 85
 <212> DNA
 <213> Saimiriine herpesvirus 2
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 attaggcaaa agcttgctga atgtg 85
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 <211> 65
 <212> DNA
 <213> Tobacco mosaic virus
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 aggggt 65
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 <211> 129
 <212> DNA
 <213> Tobacco mosaic virus
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 <211> 73
 <212> DNA
 <213> Tobacco mosaic virus
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<211> 66
 <212> DNA
 <213> Tobacco mosaic virus
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 <213> Tobacco mosaic virus
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 <211> 87
 <212> DNA
 <213> Human adenovirus C
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 <211> 83
 <212> DNA
 <213> Black beetle virus
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 <212> DNA
 <213> Black beetle virus
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 <212> DNA
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<211> 70
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 <211> 93
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 <212> DNA
 <213> Avian infectious bronchitis virus
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 <212> DNA
 <213> Avian infectious bronchitis virus
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 <212> DNA
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 <211> 76
 <212> DNA
 <213> Avian infectious bronchitis virus
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<212> DNA
 <213> Avian infectious bronchitis virus
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 attgt 125
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 <212> DNA
 <213> Avian infectious bronchitis virus
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 <212> DNA
 <213> Avian infectious bronchitis virus
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 <213> Avian infectious bronchitis virus
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 cttataactg gtagattgc atcac 85
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 <213> Avian infectious bronchitis virus
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<212> DNA
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 <213> Avian infectious bronchitis virus
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 <213> Avian infectious bronchitis virus
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 <213> Avian infectious bronchitis virus
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 <211> 81
 <212> DNA
 <213> Eggplant mosaic virus
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 cccaccgccc ccaagtatgc t 81
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 <211> 94
 <212> DNA
 <213> Eggplant mosaic virus
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 <212> DNA

<213> Feline immunodeficiency virus
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 <211> 67
 <212> DNA
 <213> Feline immunodeficiency virus
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 caaatcc 67
 <210> 366
 <211> 79
 <212> DNA
 <213> Feline immunodeficiency virus
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 gaaatataac ttggggga 79
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 <211> 131
 <212> DNA
 <213> Feline immunodeficiency virus
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 <211> 78
 <212> DNA
 <213> Hepatitis A virus
 <400> 368
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 <211> 60
 <212> DNA
 <213> Hepatitis A virus
 <400> 369
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 <211> 97
 <212> DNA
 <213> Hepatitis A virus
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 gttcctacaa ttctaagtt tagagatatt actcagc 97
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 <211> 122
 <212> DNA
 <213> Hepatitis A virus

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 tt 122
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 <211> 72
 <212> DNA
 <213> Hepatitis A virus
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 ctgtttatcc tc 72
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 <211> 114
 <212> DNA
 <213> Equine herpesvirus 1
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 <211> 126
 <212> DNA
 <213> Equine herpesvirus 1
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 gcgcag 126
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 <211> 126
 <212> DNA
 <213> Equine herpesvirus 1
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 gcattt 126
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 <211> 63
 <212> DNA
 <213> Equine herpesvirus 1
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 cgc 63
 <210> 377
 <211> 109
 <212> DNA
 <213> Equine herpesvirus 1
 <400> 377
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 <211> 131

<212> DNA

<213> Equine herpesvirus 1

<400> 378

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atgtcgggtgc t 131

<210> 379

<211> 130

<212> DNA

<213> Cryphonectria hypovirus 1

<400> 379

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aattctactt 130

<210> 380

<211> 83

<212> DNA

<213> Cryphonectria hypovirus 1

<400> 380

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<210> 381

<211> 130

<212> DNA

<213> Cryphonectria hypovirus 1

<400> 381

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<210> 382

<211> 91

<212> DNA

<213> Cryphonectria hypovirus 1

<400> 382

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<210> 383

<211> 129

<212> DNA

<213> Cryphonectria hypovirus 1

<400> 383

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cgatcatagg 129

<210> 384

<211> 83

<212> DNA

<213> Cryphonectria hypovirus 1

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 <211> 88
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 <213> Cryphonectria hypovirus 1
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 cgctatgact ctttgctgtc gacacctt 88
 <210> 386
 <211> 86
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 gtctgattat gacaattatg gttggc 86
 <210> 387
 <211> 122
 <212> DNA
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 ac 122
 <210> 388
 <211> 130
 <212> DNA
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 <211> 129
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 <210> 391
 <211> 94
 <212> DNA
 <213> Cryphonectria hypovirus 1

<400> 391
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 <211> 131
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 ggatgatgc a 131
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 <211> 130
 <212> DNA
 <213> Melon necrotic spot virus
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 <211> 96
 <212> DNA
 <213> Melon necrotic spot virus
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 <211> 88
 <212> DNA
 <213> Melon necrotic spot virus
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 catgaccgag ttctctagg atcgtccc 88
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 <212> DNA
 <213> O'nyong-nyong virus
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 ctaagagac ttc 73
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 <211> 60
 <212> DNA
 <213> Igbo Ora virus
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 <211> 67
 <212> DNA
 <213> O'nyong-nyong virus

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 <213> Pepper mottle virus
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 <213> Pepper mottle virus
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 <211> 115
 <212> DNA
 <213> Pepper mottle virus
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 <212> DNA
 <213> Pepper mottle virus
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 <213> Pepper mottle virus
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 <212> DNA
 <213> Human papillomavirus type 39
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 <211> 82
 <212> DNA
 <213> Human papillomavirus type 39
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 <213> Rabies virus
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 <212> DNA
 <213> Rabies virus
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 <211> 75
 <212> DNA
 <213> Rabies virus
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aaatagaggg ctgag 75
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 <211> 102
 <212> DNA
 <213> Rabies virus
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 c 61
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 <212> DNA
 <213> Rabbit hemorrhagic disease virus
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 <213> Sendai virus
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 <211> 84
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 <213> Sendai virus
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 <211> 131
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 <213> Sendai virus
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 agtccactgt g 131
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 <211> 88
 <212> DNA
 <213> Tomato bushy stunt virus
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 atcagtacac attcaacagc gttgtgct 88
 <210> 424
 <211> 104
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 <213> Tomato bushy stunt virus
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 <211> 74
 <212> DNA
 <213> Tomato bushy stunt virus
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 <211> 101
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 <213> Vaccinia virus
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 <212> DNA
 <213> Vaccinia virus
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 <211> 130
 <212> DNA
 <213> Vaccinia virus
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 <211> 130
 <212> DNA
 <213> Vaccinia virus
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 <211> 81
 <212> DNA
 <213> Vaccinia virus
 <400> 430
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 <211> 64
 <212> DNA
 <213> Human papillomavirus type 17
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 <210> 432
 <211> 98
 <212> DNA
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 <213> Human papillomavirus type 40
 <400> 433

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<212> DNA
<213> Human papillomavirus type 40
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<211> 63
<212> DNA
<213> Human papillomavirus type 7
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<211> 94
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<211> 127
<212> DNA
<213> Cardamine chlorotic fleck virus
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<212> DNA
<213> Borna disease virus
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<212> DNA
<213> Borna disease virus
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 <211> 94
 <212> DNA
 <213> Variola virus
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 <213> Camelpox virus
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 <212> DNA
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 <213> Variola virus
 <400> 447

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 <213> Variola virus
 <400> 448
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 <212> DNA
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 <212> DNA
 <213> Autographa californica nucleopolyhedrovirus
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 agtagctttg cccacaaata gatcgtttta t 91
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 <211> 95
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 <213> Autographa californica nucleopolyhedrovirus
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 <212> DNA
 <213> Equine herpesvirus 2
 <400> 454

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 <212> DNA
 <213> Equine herpesvirus 2
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 <210> 456
 <211> 60
 <212> DNA
 <213> African swine fever virus
 <400> 456
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 <210> 457
 <211> 81
 <212> DNA
 <213> Human herpesvirus 6
 <400> 457
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 aatatgaaca atgacattat t 81
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 <211> 86
 <212> DNA
 <213> Tick-borne encephalitis virus
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 ggcagtactg gggcagctac cgcacg 86
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 <211> 89
 <212> DNA
 <213> Tick-borne encephalitis virus
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 catctaccg gggcgcggt ggagtgtcc 89
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 <211> 97
 <212> DNA
 <213> Tick-borne encephalitis virus
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 ccataacaga ggcttcagca gtgggactgg cagcagc 97
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 <211> 130
 <212> DNA
 <213> Tick-borne encephalitis virus
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 ggaaggctca 130
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 <212> DNA
 <213> Tick-borne encephalitis virus
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 <212> DNA
 <213> Hepatitis G virus
 <400> 463
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 <211> 130
 <212> DNA
 <213> Hepatitis G virus
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 <211> 131
 <212> DNA
 <213> Hepatitis G virus
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 gccacagtca t 131
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 <211> 125
 <212> DNA
 <213> Hepatitis G virus
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 cctat 125
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 <211> 130
 <212> DNA
 <213> Hepatitis G virus
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 <211> 98

<212> DNA
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 <211> 73
 <212> DNA
 <213> Hepatitis G virus
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 <210> 470
 <211> 64
 <212> DNA
 <213> Hepatitis G virus
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 gggg 64
 <210> 471
 <211> 131
 <212> DNA
 <213> Hepatitis G virus
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 ggctctccga g 131
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 <211> 103
 <212> DNA
 <213> Hepatitis G virus
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 tagctatgcg ggggggaatg atctacgcgt catacaccgg gtc 103
 <210> 473
 <211> 63
 <212> DNA
 <213> Hepatitis G virus
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 ggt 63
 <210> 474
 <211> 123
 <212> DNA
 <213> Hepatitis G virus
 <400> 474
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 gtc 123
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<211> 90
 <212> DNA
 <213> Hepatitis G virus
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 gtgagaggta ttgcagatcc tcgggtgtcc 90
 <210> 476
 <211> 129
 <212> DNA
 <213> Hepatitis G virus
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 cgcgttgac 129
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 <211> 100
 <212> DNA
 <213> Hepatitis G virus
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 ggttccatt ccatcgggtgc ggcgtggggc ctgggtgac 100
 <210> 478
 <211> 105
 <212> DNA
 <213> Hepatitis G virus
 <400> 478
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 ctctacgcca ccgtacacc tcccggtacc cctatgacgc agcac 105
 <210> 479
 <211> 125
 <212> DNA
 <213> Hepatitis G virus
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 agatg 125
 <210> 480
 <211> 61
 <212> DNA
 <213> Hepatitis G virus
 <400> 480
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 a 61
 <210> 481
 <211> 113
 <212> DNA
 <213> Hepatitis G virus
 <400> 481
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 cgtggttgcg cggcgtggtg atgaggttct catcggcgtc ttccaggatg tga 113

<210> 482
 <211> 72
 <212> DNA
 <213> Human herpesvirus 7
 <400> 482
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 gaactctgtc at 72
 <210> 483
 <211> 97
 <212> DNA
 <213> Human herpesvirus 7
 <400> 483
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 tatatggcga aaatcacaaa tatttttcaa cagcaac 97
 <210> 484
 <211> 64
 <212> DNA
 <213> Human herpesvirus 7
 <400> 484
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 tgag 64
 <210> 485
 <211> 65
 <212> DNA
 <213> Strawberry vein banding virus (SVBV)
 <400> 485
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 cgtct 65
 <210> 486
 <211> 121
 <212> DNA
 <213> Strawberry vein banding virus (SVBV)
 <400> 486
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 caaggacact acgaatgggt agtcatgcct ttggattaa aacaagcccc tgctattttc 120
 c 121
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 <211> 74
 <212> DNA
 <213> Carrot mottle mimic virus
 <400> 487
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 ttaagagacc aggt 74
 <210> 488
 <211> 90
 <212> DNA
 <213> Carrot mottle mimic virus
 <400> 488
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 tgaccgagca tccactgtac aaatgcggca 90

<210> 489
 <211> 79
 <212> DNA
 <213> Molluscum contagiosum virus
 <400> 489
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 caatgtcctg tccgagcta 79
 <210> 490
 <211> 130
 <212> DNA
 <213> Molluscum contagiosum virus
 <400> 490
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 tggacatcta 130
 <210> 491
 <211> 92
 <212> DNA
 <213> Molluscum contagiosum virus
 <400> 491
 cgcagcgcga ctttcccgag ggcgactgcc tgctccggca ctccacggag gagcagtacg 60
 tcttctgga ctttcgcaac ttaactctg cg 92
 <210> 492
 <211> 121
 <212> DNA
 <213> Saguaro cactus virus
 <400> 492
 aacaatgggt acgatttgt tctcatatgc gaaactcgtg acgtggggcg tgtcgtggat 60
 aagttaacga cagcgtggct ccacttgggt ttacatgta tcgcagagga accagtctat 120
 g 121
 <210> 493
 <211> 127
 <212> DNA
 <213> Saguaro cactus virus
 <400> 493
 caaccgggcc tattctgaga ttccgatgc tgccagattt agcttttga aagccttga 60
 catcttacca gatgttcagg aggccaccga agctgaactg cgtcgcacct ggattagtct 120
 cgatttt 127
 <210> 494
 <211> 131
 <212> DNA
 <213> Saguaro cactus virus
 <400> 494
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 cgcaagtggg ggattgttat cagggcagga agcgcaccgt gtatcacaat gtcgcttat 120
 ctcttgatga a 131
 <210> 495
 <211> 70
 <212> DNA
 <213> Papaya ringspot virus

<400> 495
 gcaaagtggg ggtcgttggc tcttgacaa attacacggc aattgaaag gagtagctc 60
 cgctcctagc 70
 <210> 496
 <211> 111
 <212> DNA
 <213> Papaya ringspot virus
 <400> 496
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 tgtttatcac cagtcttttag atgacattcg ggatttctat gaagacaagc a 111
 <210> 497
 <211> 73
 <212> DNA
 <213> Cucumber green mottle mosaic virus
 <400> 497
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 gctggttga cac 73
 <210> 498
 <211> 115
 <212> DNA
 <213> Cucumber green mottle mosaic virus
 <400> 498
 gttgtatgac tgcgaaaagt gcaagtgggt attgttgcca gccgagaaga agcacgcatg 60
 ggccgtgggt ctggcaagtg acgataccac tcgcataatc ttccttcat atgac 115
 <210> 499
 <211> 104
 <212> DNA
 <213> Cucumber green mottle mosaic virus
 <400> 499
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 <210> 500
 <211> 90
 <212> DNA
 <213> Cucumber green mottle mosaic virus
 <400> 500
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 ttctgttgcg ttatccagta cctctgtaga 90
 <210> 501
 <211> 63
 <212> DNA
 <213> Cucumber green mottle mosaic virus
 <400> 501
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 gga 63
 <210> 502
 <211> 120
 <212> DNA
 <213> Galinsoga mosaic virus
 <400> 502

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 ggctggcagg gtgggggtgt acttcgacaa agactcacia gatcctgagc ctactgatcg 120
 <210> 503
 <211> 69
 <212> DNA
 <213> Galinsoga mosaic virus
 <400> 503
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 actcttacc 69
 <210> 504
 <211> 76
 <212> DNA
 <213> Lymphocystis disease virus 1
 <400> 504
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 attttaaac aacttc 76
 <210> 505
 <211> 72
 <212> DNA
 <213> Lymphocystis disease virus 1
 <400> 505
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 aatttctaca gc 72
 <210> 506
 <211> 130
 <212> DNA
 <213> Lymphocystis disease virus 1
 <400> 506
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 agcttaaaca 130
 <210> 507
 <211> 110
 <212> DNA
 <213> Lymphocystis disease virus 1
 <400> 507
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 gtaaccagcg actatttaaa attaatat acgtattgtg ttttgatac 110
 <210> 508
 <211> 68
 <212> DNA
 <213> Lymphocystis disease virus 1
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 caacggtg 68
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 <211> 115
 <212> DNA
 <213> murid herpesvirus 4
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<210> 510
<211> 109
<212> DNA
<213> murid herpesvirus 4
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atatactcac aagcttgggt caatatattaa tctgagtacg cggctctgt 109
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<211> 69
<212> DNA
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<210> 512
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<212> DNA
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<210> 513
<211> 92
<212> DNA
<213> murid herpesvirus 4
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ctatggatag atatggaggt ctgcttgag ga 92
<210> 514
<211> 84
<212> DNA
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<400> 514
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atcaccagtc ggggacccaa tgta 84
<210> 515
<211> 76
<212> DNA
<213> murid herpesvirus 4
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tgcagcccc ccggga 76
<210> 516
<211> 61
<212> DNA
<213> Common chimpanzee papillomavirus 1
<400> 516
gccacattgg accacaggtg gtgccacat tacaggtatc acagactaag ggacatgagg 60

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61

<210> 517

<211> 76

<212> DNA

<213> Equine herpesvirus 4

<400> 517

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atcaaataata ttatgg 76

<210> 518

<211> 76

<212> DNA

<213> Murine hepatitis virus

<400> 518

tggccccgta agaggcagtc atagctatgg ccgtgttggt cctaaggcta cattggctgc 60

tgtctttatt ggtcca 76

<210> 519

<211> 83

<212> DNA

<213> Turnip vein-clearing virus

<400> 519

tagtctcgta cgaacctaag gtgagtgatt tcctcaatct ttcgaagaag gaagagatct 60

tgccgaaggc tctaacgagg tta 83

<210> 520

<211> 100

<212> DNA

<213> Orgyia pseudotsugata single capsid nuclear polyhedrosis virus

<400> 520

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cgctccgctgg cgagcacttt aacccacccc gccagagaca 100

<210> 521

<211> 87

<212> DNA

<213> Hendra virus

<400> 521

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acaccaccca atccaagcac catccat 87

<210> 522

<211> 84

<212> DNA

<213> Ateline herpesvirus 3

<400> 522

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tgccatttgt atttgctatg ttgt 84

<210> 523

<211> 102

<212> DNA

<213> Ateline herpesvirus 3

<400> 523

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aagatagtta agacgaagtt gtccagaaaa gcagagatac ta 102

<210> 524
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 <212> DNA
 <213> Ateline herpesvirus 3
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 gcgatcacag c 71
 <210> 525
 <211> 130
 <212> DNA
 <213> Bovine respiratory syncytial virus
 <400> 525
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 atagaaggtt 130
 <210> 526
 <211> 98
 <212> DNA
 <213> Bovine respiratory syncytial virus
 <400> 526
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 tctaagatta tacaatggcc atataagtat agattatg 98
 <210> 527
 <211> 69
 <212> DNA
 <213> Bovine respiratory syncytial virus
 <400> 527
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 attgaatca 69
 <210> 528
 <211> 130
 <212> DNA
 <213> Melanoplus sanguinipes entomopoxvirus
 <400> 528
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 ataaatgatc 130
 <210> 529
 <211> 129
 <212> DNA
 <213> Melanoplus sanguinipes entomopoxvirus
 <400> 529
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 taattttaca atatcatgat aaattacatt gggaatatat agctaaacat caaattttat 120
 cagaatact 129
 <210> 530
 <211> 58
 <212> DNA
 <213> infectious spleen and kidney necrosis virus
 <400> 530

acctgccact gtgtgtatgt gtttaaataa acatataaca tgacattttt tggctggt 58
 <210> 531
 <211> 86
 <212> DNA
 <213> Melanoplus sanguinipes entomopoxvirus
 <400> 531
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 tgttgaagaa ttattatggt ttatat 86
 <210> 532
 <211> 108
 <212> DNA
 <213> Peanut stunt virus
 <400> 532
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 aattacatca gaatgttatt tcgaatcttc agcggatttg gtgttcag 108
 <210> 533
 <211> 97
 <212> DNA
 <213> Peanut stunt virus
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 <212> DNA
 <213> tomato leaf curl virus
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 agaacatcaa gctcaagaac cacac 85
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 <213> Leishmania RNA virus 1-1
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 gcagcacaga t 131
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 <213> Human adenovirus D
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 gataagaccg gagacacgaa 80
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 <213> Bovine parainfluenza virus 3
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 <211> 128
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 tcgtgtta 128
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aaatgtg 127
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 <212> DNA
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 <212> DNA
 <213> Fowlpox virus
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 <212> DNA
 <213> Fowlpox virus
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 cca 123
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 <212> DNA
 <213> Fowlpox virus
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 gat 123
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 <211> 87
 <212> DNA
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 ctacatattt cctacacttt gtgagaa 87
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 <212> DNA
 <213> Fowlpox virus
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 cgga 64
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 gtat 124
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 <212> DNA
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 <212> DNA
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ttacttttt tccgtattga atatttatga tattgg 96
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 <212> DNA
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 <212> DNA
 <213> Gallid herpesvirus 2
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 <210> 578
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 <213> Gallid herpesvirus 2
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 <213> Northern cereal mosaic virus
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 aatctggtaa gt 72
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 <211> 73
 <212> DNA
 <213> Northern cereal mosaic virus
 <400> 581
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 <211> 121
 <212> DNA
 <213> Northern cereal mosaic virus
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 <211> 70
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 <211> 99
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 <212> DNA
 <213> Transmissible gastroenteritis virus
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 <211> 65
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 ctgac 65

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 <211> 104
 <212> DNA
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 <211> 89
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 <211> 108
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 <211> 116
 <212> DNA
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 <212> DNA
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 <211> 85
 <212> DNA
 <213> Rice grassy stunt virus
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 tacctagcat gattgagctg aaggt 85
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<211> 103
 <212> DNA
 <213> Rice grassy stunt virus
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 <212> DNA
 <213> Rice grassy stunt virus
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 <213> Xestia c-nigrum granulovirus
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 <213> Hepatitis GB virus C
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 <213> Ovine astrovirus
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 <211> 86
 <212> DNA
 <213> Turkey astrovirus
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 <212> DNA
 <213> Cherry mottle leaf virus
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 <211> 101
 <212> DNA
 <213> Cherry mottle leaf virus
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 <213> Frog adenovirus 1
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 attttattcc gtg 73
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 <213> Turnip mosaic virus
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 <213> Turnip mosaic virus
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 tacacaagcc aag 73
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 <213> Turnip mosaic virus
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 cgtgcgagag aggcacacat c 81
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 <212> DNA
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 gaagatc 67
 <210> 628
 <211> 81
 <212> DNA
 <213> Rat cytomegalovirus
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 ggtcttcag ctgccgcgtt g 81

<210> 629
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 <212> DNA
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 <212> DNA
 <213> Parvovirus H1
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 <212> DNA
 <213> Parvovirus H1
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 <211> 86
 <212> DNA
 <213> Lactate dehydrogenase-elevating virus
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 ggcttgtgc tgagcggtagc tgagtc 86
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 <212> DNA
 <213> acute bee paralysis virus
 <400> 633
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 <213> acute bee paralysis virus
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 gggtttccca tggatagc 78
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 <211> 111
 <212> DNA
 <213> acute bee paralysis virus
 <400> 635
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<211> 87
 <212> DNA
 <213> Saimiriine herpesvirus 2
 <400> 636
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 taatagtgtt tattctaaaa cttatat 87
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 <211> 77
 <212> DNA
 <213> Meleagrid herpesvirus 1
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 catagataag tatttgc 77
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 <211> 94
 <212> DNA
 <213> Meleagrid herpesvirus 1
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 tggggatcac agaattgtgtt aaacgagtgg cgggt 94
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 aacaggatat agtcttatct actgaacgcg cggatatgtt ttattctta cacgcattat 120
 tgactg 126
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 <213> Meleagrid herpesvirus 1
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 cagattactt tctccctgt cc 82
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 <213> Meleagrid herpesvirus 1
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<212> DNA
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 ctctgatctg ggagctgatt atgcggg 87
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 <211> 92
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 <213> Meleagrid herpesvirus 1
 <400> 645
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 <213> Meleagrid herpesvirus 1
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 <211> 53
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 647
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 <210> 648
 <211> 87
 <212> DNA
 <213> Vaccinia virus
 <400> 648
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 acgatgtatt gtttagttac tcttgg 87
 <210> 649
 <211> 62
 <212> DNA
 <213> Rachiplusia ou multiple nucleopolyhedrovirus
 <400> 649
 acgagtaaa aagggtcata tttaaattta gttgagtta tgagataaga ttaaaagcac 60
 gt 62
 <210> 650
 <211> 130
 <212> DNA
 <213> Rachiplusia ou multiple nucleopolyhedrovirus

<400> 650

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tctgatcgcg 130

<210> 651

<211> 53

<212> DNA

<213> Rachiplusia ou multiple nucleopolyhedrovirus

<400> 651

tatgactcaa gttatgagcc gtgtgcaaaa catgacatag cctatgagtc ata 53
<210> 652

<211> 74

<212> DNA

<213> Yaba-like disease virus

<400> 652

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<210> 653

<211> 130

<212> DNA

<213> Fowlpox virus

<400> 653

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aataaaaaca 130

<210> 654

<211> 109

<212> DNA

<213> Fowlpox virus

<400> 654

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atatattgct aactatgtag tacaatataa gtatattaat ttgtttacc 109

<210> 655

<211> 84

<212> DNA

<213> Yaba-like disease virus

<400> 655

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tagtgctttt ttttgtata tgtg 84

<210> 656

<211> 96

<212> DNA

<213> Yaba-like disease virus

<400> 656

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atggaaaatc agatgttgct gtttatgata ttccgg 96

<210> 657

<211> 87

<212> DNA

<213> Yaba-like disease virus

<400> 657

gagtgtataa aagtaaaaca actgaacaaa tacatggagt tttatacat caaaaaattt 60
tatgggatgt tttaacttg atattctc 87

<210> 658

<211> 62

<212> DNA

<213> Yaba-like disease virus

<400> 658

tatatgtcaa aattacgaca tttacacgg agagtgttt aaagtcgtt taatgtcaaa 60
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<210> 659

<211> 131

<212> DNA

<213> Human coronavirus 229E

<400> 659

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tacttcaaaa t 131

<210> 660

<211> 130

<212> DNA

<213> Human coronavirus 229E

<400> 660

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gtgtcttact 130

<210> 661

<211> 112

<212> DNA

<213> Human coronavirus 229E

<400> 661

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<210> 662

<211> 60

<212> DNA

<213> Human coronavirus 229E

<400> 662

caagacttca aaacttttga ttgttgaaa tatgattca cagaacataa ggaggtttg 60

<210> 663

<211> 129

<212> DNA

<213> Human coronavirus 229E

<400> 663

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<211> 91

<212> DNA

<213> Human coronavirus 229E
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 gcaaagaaag gtatttctg tattatgtct g 91
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 <212> DNA
 <213> Human coronavirus 229E
 <400> 665
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 gtactataca aattctcgt agtgcctg 90
 <210> 666
 <211> 105
 <212> DNA
 <213> Human coronavirus 229E
 <400> 666
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 <210> 667
 <211> 108
 <212> DNA
 <213> Human coronavirus 229E
 <400> 667
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 <210> 668
 <211> 124
 <212> DNA
 <213> Human coronavirus 229E
 <400> 668
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 aagagagctt taggcctgc tattagtcat catgaattta ctagtctat ttctaagca 120
 catc 124
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 <211> 72
 <212> DNA
 <213> Human coronavirus 229E
 <400> 669
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 aaaatgggca tc 72
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 <211> 64
 <212> DNA
 <213> Human coronavirus 229E
 <400> 670
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 ctgt 64
 <210> 671
 <211> 131
 <212> DNA

<213> Human coronavirus 229E
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 aaaactttaa ttttacct acaagctgct ttggtaatg ctggtgttg ttatgacatt 120
 ttggagtca c 131
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 <211> 87
 <212> DNA
 <213> Human coronavirus 229E
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 tccatagtag ctaccagaaa tgccacc 87
 <210> 673
 <211> 117
 <212> DNA
 <213> Human coronavirus 229E
 <400> 673
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 <210> 674
 <211> 94
 <212> DNA
 <213> Human coronavirus 229E
 <400> 674
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 ttttaaaaa ttgtaatgtt ttggatgatt tcat 94
 <210> 675
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 <212> DNA
 <213> Human coronavirus 229E
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 ctac 64
 <210> 676
 <211> 106
 <212> DNA
 <213> Human coronavirus 229E
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 <211> 118
 <212> DNA
 <213> Human coronavirus 229E
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<213> Human coronavirus 229E
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 <213> Human coronavirus 229E
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 <211> 73
 <212> DNA
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 <211> 103
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 <212> DNA
 <213> Human coronavirus 229E

<400> 685
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 <212> DNA
 <213> Human coronavirus 229E
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 <212> DNA
 <213> Human coronavirus 229E
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 <211> 108
 <212> DNA
 <213> Human coronavirus 229E
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 <211> 131
 <212> DNA
 <213> Human coronavirus 229E

<400> 692

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<210> 693

<211> 82

<212> DNA

<213> Invertebrate iridescent virus 6

<400> 693

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atataacaaa taatctcgg cc 82

<210> 694

<211> 58

<212> DNA

<213> Potato virus V

<400> 694

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<210> 695

<211> 126

<212> DNA

<213> Helicoverpa armigera nuclear polyhedrosis virus

<400> 695

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gagcac 126

<210> 696

<211> 131

<212> DNA

<213> pestivirus type 2

<400> 696

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<211> 66

<212> DNA

<213> pestivirus type 2

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<210> 698

<211> 112

<212> DNA

<213> pestivirus type 2

<400> 698

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<210> 699

<211> 73

<212> DNA

<213> Bovine herpesvirus 4
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 <211> 67
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 <210> 701
 <211> 95
 <212> DNA
 <213> Cercopithecine herpesvirus 7
 <400> 701
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 <211> 61
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 <210> 703
 <211> 88
 <212> DNA
 <213> Cercopithecine herpesvirus 7
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 cggagatttg tgtgaactt aatatttc 88
 <210> 704
 <211> 121
 <212> DNA
 <213> Cercopithecine herpesvirus 7
 <400> 704
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 c 121
 <210> 705
 <211> 113
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 705
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 tattcgaggt gcgcaacgga gccgagtgtg cggaagtcca gagcgtgctg cgc 113
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 <211> 79
 <212> DNA

<213> Ectocarpus siliculosus virus
 <400> 706
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 cgtgaactac ttgagaac 79
 <210> 707
 <211> 108
 <212> DNA
 <213> Tomato mosaic virus
 <400> 707
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 ttcagacaag ttcatgttg atgttttcc ccagatgtgc caatctt 108
 <210> 708
 <211> 90
 <212> DNA
 <213> Tomato mosaic virus
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 tcactttcca tgataggta gttctgagt 90
 <210> 709
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 <212> DNA
 <213> Tomato mosaic virus
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 <211> 79
 <212> DNA
 <213> Tomato mosaic virus
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 ggttgtgagt 130
 <210> 712
 <211> 71
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<212> DNA
 <213> Aconitum latent virus
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 <212> DNA
 <213> Aconitum latent virus
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 <213> Cydia pomonella granulovirus
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 <213> Cydia pomonella granulovirus
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 tg 62
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 <212> DNA
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<212> DNA
 <213> Barley yellow mosaic virus
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 <213> Barley yellow mosaic virus
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 ggaagttcat tgcagctcaa ggc 83
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 <213> Barley yellow mosaic virus
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 <212> DNA
 <213> Taura syndrome virus
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 gcattgaatc 130
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<212> DNA
 <213> Taura syndrome virus
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 <212> DNA
 <213> Taura syndrome virus
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 <212> DNA
 <213> Invertebrate iridescent virus 6
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 <212> DNA
 <213> Bovine coronavirus
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 <211> 89
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<211> 110
 <212> DNA
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 <212> DNA
 <213> Bovine coronavirus
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 <212> DNA
 <213> Bovine coronavirus
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 <210> 747
 <211> 94
 <212> DNA
 <213> Bovine coronavirus
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<212> DNA
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 <212> DNA
 <213> Bovine coronavirus
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 <212> DNA
 <213> Bovine coronavirus
 <400> 753
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 ttaa 124
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 <212> DNA
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 <211> 130
 <212> DNA
 <213> Bovine coronavirus
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 <211> 87
 <212> DNA
 <213> Bovine coronavirus
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 gattgtaaga gtgattttat gagtgag 87
 <210> 759
 <211> 114
 <212> DNA
 <213> Bovine coronavirus
 <400> 759
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 <211> 65
 <212> DNA
 <213> Bovine coronavirus
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 gggaa 65
 <210> 762

<211> 62
 <212> DNA
 <213> Culex nigripalpus baculovirus
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 ac 62
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 <213> Culex nigripalpus baculovirus
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 gcggtcgacg g 131
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 <211> 105
 <212> DNA
 <213> Culex nigripalpus baculovirus
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 <211> 75
 <212> DNA
 <213> Spodoptera litura nucleopolyhedrovirus
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 <212> DNA
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 <211> 73
 <212> DNA
 <213> deer tick virus
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 <211> 77
 <212> DNA
 <213> deer tick virus
 <400> 768
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<210> 769
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 <212> DNA
 <213> deer tick virus
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 aaaaaggcag taggtcatgt ttatgactca acaaaaatca cgta 104
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 <211> 104
 <212> DNA
 <213> deer tick virus
 <400> 770
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 <210> 771
 <211> 64
 <212> DNA
 <213> Zucchini yellow mosaic virus
 <400> 771
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 <210> 772
 <211> 79
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 <213> Zucchini yellow mosaic virus
 <400> 772
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 <210> 773
 <211> 130
 <212> DNA
 <213> Zucchini yellow mosaic virus
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 cgacaaggga 130
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 <211> 98
 <212> DNA
 <213> Zucchini yellow mosaic virus
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 <211> 109
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 775
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 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 70
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 68
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <210> 780
 <211> 87
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 780
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 <211> 128
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 781
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 atatggcc 128
 <210> 782
 <211> 61
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 782
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<210> 783
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 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 783
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 <210> 784
 <211> 125
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 tgaga 125
 <210> 785
 <211> 130
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 103
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
 <400> 786
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 <211> 83
 <212> DNA
 <213> murid herpesvirus 4
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 <212> DNA
 <213> murid herpesvirus 4
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 <211> 56
 <212> DNA
 <213> murid herpesvirus 4
 <400> 789
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<210> 790
 <211> 80
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 128
 <212> DNA
 <213> Feline immunodeficiency virus
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 <211> 93
 <212> DNA
 <213> shrimp white spot syndrome virus (white spot bacilliform virus)
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 <211> 127
 <212> DNA
 <213> Equine herpesvirus 2
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 <212> DNA
 <213> Equine herpesvirus 2
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 <212> DNA
 <213> Equine herpesvirus 2
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 <212> DNA
 <213> Amsacta moorei entomopoxvirus
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 <212> DNA
 <213> African swine fever virus
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 aatctgtaat 130
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 <212> DNA
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 <213> Monkeypox virus
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 <213> Gallid herpesvirus 2
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 <212> DNA
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 ccgcagaata gcttcttga gggga 85
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 <211> 95
 <212> DNA
 <213> Lymphocystis disease virus 1
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 ttcttgggc ataatcata ccacaggtac cttt 95
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 <211> 76
 <212> DNA
 <213> Lymphocystis disease virus 1
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 tgggatcaca gaagcc 76
 <210> 837
 <211> 78
 <212> DNA
 <213> Lymphocystis disease virus 1
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 <211> 130
 <212> DNA
 <213> Molluscum contagiosum virus
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<211> 84
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 <213> Ectromelia virus
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 <210> 840
 <211> 87
 <212> DNA
 <213> Amsacta moorei entomopoxvirus
 <400> 840
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 tacgtttgac caaagcagga tctactg 87
 <210> 841
 <211> 95
 <212> DNA
 <213> African swine fever virus
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 gttggatagt atcgaggaa ctcggtgttg ttct 95
 <210> 842
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 <212> DNA
 <213> African swine fever virus
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 atactgtttg actgtctcca gctttcacc 90
 <210> 843
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 <212> DNA
 <213> Ectromelia virus
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 <212> DNA
 <213> Ectromelia virus
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 <210> 845
 <211> 65
 <212> DNA
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 agtca 65
 <210> 846
 <211> 63

<212> DNA
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 <211> 86
 <212> DNA
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 <212> DNA
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 <211> 99
 <212> DNA
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 <211> 112
 <212> DNA
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 <212> DNA
 <213> Swinepox virus
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 <211> 124
 <212> DNA
 <213> turkey adenovirus 3

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 aagt 124
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 <211> 75
 <212> DNA
 <213> turkey adenovirus 3
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 <212> DNA
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 <212> DNA
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 <210> 858
 <211> 55
 <212> DNA
 <213> Fowlpox virus
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 <210> 859
 <211> 73
 <212> DNA
 <213> Fowlpox virus
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 <212> DNA
 <213> Swinepox virus
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<210> 861

<211> 107

<212> DNA

<213> Human herpesvirus 5

<400> 861

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<211> 108

<212> DNA

<213> Human herpesvirus 5

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<210> 863

<211> 87

<212> DNA

<213> Human herpesvirus 5

<400> 863

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<211> 99

<212> DNA

<213> Swinepox virus

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<211> 54

<212> DNA

<213> Amsacta moorei entomopoxvirus

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<210> 866

<211> 127

<212> DNA

<213> Gallid herpesvirus 3

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<211> 73

<212> DNA

<213> Gallid herpesvirus 3

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 <211> 110
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 <213> Human adenovirus E
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 <211> 67
 <212> DNA
 <213> Vaccinia virus
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 gatcatc 67
 <210> 873
 <211> 79
 <212> DNA
 <213> Vaccinia virus
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 <212> DNA
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 <211> 89
 <212> DNA
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 <211> 63
 <212> DNA
 <213> Periplaneta fuliginosa densovirus
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<211> 118
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 <211> 80
 <212> DNA
 <213> Cowpea mottle virus
 <400> 884
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 <212> DNA
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 <210> 887
 <211> 96
 <212> DNA
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 <213> Sulfolobus virus SIRV-1
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 <213> Melanoplus sanguinipes entomopoxvirus
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 <213> Human herpesvirus 8
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 <213> Trichoplusia ni cytoplasmic polyhedrosis virus 15
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 <213> Vaccinia virus
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 <212> DNA
 <213> infectious spleen and kidney necrosis virus
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 <212> DNA
 <213> Amsacta moorei entomopoxvirus
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 aatttcaatg gtttctgaa 79
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 <212> DNA
 <213> Human herpesvirus 4
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 caccttcccc 130
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 <212> DNA
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 <213> Melanoplus sanguinipes entomopoxvirus
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 <213> Melanoplus sanguinipes entomopoxvirus
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<212> DNA
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 <213> beet soil-borne mosaic virus
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 <212> DNA
 <213> beet soil-borne mosaic virus
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 <212> DNA
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 <211> 59
 <212> DNA
 <213> infectious spleen and kidney necrosis virus
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 <213> Human herpesvirus 6
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 <212> DNA
 <213> Human herpesvirus 6
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 <212> DNA
 <213> Carnation Italian ringspot virus
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 <210> 935
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 <212> DNA
 <213> Carnation Italian ringspot virus
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 <212> DNA
 <213> Tomato bushy stunt virus
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 <212> DNA
 <213> Tomato bushy stunt virus
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 <211> 113
 <212> DNA
 <213> Tomato bushy stunt virus
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 <212> DNA
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 <210> 940
 <211> 126
 <212> DNA
 <213> Tomato spotted wilt virus
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 <211> 60
 <212> DNA
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 <212> DNA
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 <211> 57
 <212> DNA
 <213> Tomato spotted wilt virus
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 <211> 92
 <212> DNA
 <213> Tomato spotted wilt virus
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 <211> 64
 <212> DNA
 <213> lumpy skin disease virus
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<212> DNA
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 <211> 119
 <212> DNA
 <213> Goatpox virus
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 <211> 123
 <212> DNA
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 <212> DNA
 <213> Meleagrid herpesvirus 1
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 <212> DNA
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 <213> Goatpox virus
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 aatacattta tatcaattgt atctagtag 89
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 <212> DNA
 <213> Melanoplus sanguinipes entomopoxvirus
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 <212> DNA
 <213> Equine herpesvirus 1
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<213> Melanoplus sanguinipes entomopoxvirus
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 <212> DNA
 <213> Variola virus
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 <212> DNA
 <213> Camelpox virus
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<212> DNA
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 <211> 124
 <212> DNA
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 <211> 92
 <212> DNA
 <213> Leishmania RNA virus 1-4
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 ttcttgggtt aaagatggct ggtatgatag ct 92
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 <211> 58
 <212> DNA

<213> Leishmania RNA virus 1-4
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 <212> DNA
 <213> Cowpox virus
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 <212> DNA
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 <213> Beet western yellows virus
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 <212> DNA
 <213> Beet western yellows virus
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 <212> DNA
 <213> Beet western yellows virus
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 <400> 1008
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 <212> DNA
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 <213> Beet mild yellowing virus
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 <212> DNA
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 gctg 124
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 <212> DNA
 <213> Molluscum contagiosum virus
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 <212> DNA
 <213> Molluscum contagiosum virus
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 <212> DNA
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 <212> DNA
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 <213> White clover mosaic virus
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 <212> DNA
 <213> Human herpesvirus 8
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<213> Potato mop-top virus
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 <212> DNA
 <213> porcine epidemic diarrhea virus
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 tcttaaag 128
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 <212> DNA
 <213> Poinsettia mosaic virus
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 <213> Poinsettia mosaic virus
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 ctgg 65
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 <212> DNA
 <213> Poinsettia mosaic virus
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 taacctcgt gctcgttga gctc 84
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 cactataata tcctggt 77
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 ttattacaca ggcttagcca tgttgactac t 91
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 <213> Strawberry mottle virus
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 <212> DNA
 <213> African swine fever virus
 <400> 1085
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 <213> Strawberry mottle virus
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 <212> DNA
 <213> African swine fever virus
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 <212> DNA
 <213> African swine fever virus
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 gtgtgcac 68

<210> 1089
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 <212> DNA
 <213> Human herpesvirus 2
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 aactcgcgtt 130
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 <212> DNA
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 accacacca c 131
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 <212> DNA
 <213> Porcine adenovirus C
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 ggactga 67
 <210> 1094
 <211> 117
 <212> DNA
 <213> Chimpanzee cytomegalovirus
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 <211> 91
 <212> DNA
 <213> Chimpanzee cytomegalovirus
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aggccggcgga gccgcccaga cggatcttgc a 91

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<211> 59

<212> DNA

<213> Duck adenovirus 1

<400> 1096

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<210> 1097

<211> 70

<212> DNA

<213> Camelpox virus

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tatctattat 70

<210> 1098

<211> 102

<212> DNA

<213> Camelpox virus

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<211> 64

<212> DNA

<213> Camelpox virus

<400> 1099

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gttc 64

<210> 1100

<211> 79

<212> DNA

<213> Camelpox virus

<400> 1100

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attttattac atttcatg 79

<210> 1101

<211> 88

<212> DNA

<213> Camelpox virus

<400> 1101

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ttctaacttg gcccgatat tcgagaaa 88

<210> 1102

<211> 69

<212> DNA

<213> Monkeypox virus

<400> 1102

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aatgacgat 69

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<211> 130
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 gtagctaagt 130
 <210> 1104
 <211> 78
 <212> DNA
 <213> Monkeypox virus
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 aacatatgat attcggtc 78
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 <211> 63
 <212> DNA
 <213> Camelpox virus
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 tct 63
 <210> 1106
 <211> 95
 <212> DNA
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 cgttttcacg tttatcacc atatagtttc taaga 95
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 <211> 131
 <212> DNA
 <213> Saimiriine herpesvirus 2
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 tagtttgtgt t 131
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 <212> DNA
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 <400> 1108
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 <211> 77
 <212> DNA
 <213> Saimiriine herpesvirus 2
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<210> 1110
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 <212> DNA
 <213> Saimiriine herpesvirus 2
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 catttattt aa 72
 <210> 1112
 <211> 70
 <212> DNA
 <213> Ononis yellow mosaic virus
 <400> 1112
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 tggaggggtg 70
 <210> 1113
 <211> 89
 <212> DNA
 <213> Barley stripe mosaic virus
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 acatgcgaaa atcactgatg gaatgggtt 89
 <210> 1114
 <211> 129
 <212> DNA
 <213> Barley stripe mosaic virus
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 gttttcagt 129
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 <211> 107
 <212> DNA
 <213> Barley stripe mosaic virus
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 gctctaaaag ttcattacgg cgccataatg ttctgtgctg ataagct 107
 <210> 1116
 <211> 123
 <212> DNA
 <213> Barley stripe mosaic virus
 <400> 1116
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cgg 123

<210> 1117

<211> 131

<212> DNA

<213> Barley stripe mosaic virus

<400> 1117

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acctgtagc c 131

<210> 1118

<211> 87

<212> DNA

<213> Barley stripe mosaic virus

<400> 1118

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gtcattactt ggtggagaat ggcagga 87

<210> 1119

<211> 79

<212> DNA

<213> maize rayado fino virus

<400> 1119

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gtgatctgac ggcccccat 79

<210> 1120

<211> 64

<212> DNA

<213> maize rayado fino virus

<400> 1120

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atgc 64

<210> 1121

<211> 128

<212> DNA

<213> maize rayado fino virus

<400> 1121

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gaacagcc 128

<210> 1122

<211> 65

<212> DNA

<213> Beet mild yellowing virus

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<210> 1123

<211> 84

<212> DNA

<213> Beet mild yellowing virus

<400> 1123

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 <213> Beet mild yellowing virus
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 <211> 130
 <212> DNA
 <213> Chayote mosaic tymovirus
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 gtgagtgggc 130
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 <212> DNA
 <213> Chayote mosaic tymovirus
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 <211> 95
 <212> DNA
 <213> Chayote mosaic tymovirus
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 ggatccgaga cgccaagggt tcggacggcc cgagt 95
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 <211> 57
 <212> DNA
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 <213> Bamboo mosaic virus
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 <211> 119
 <212> DNA
 <213> Bamboo mosaic virus
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 <212> DNA
 <213> Fowlpox virus
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 c 61
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 <211> 81
 <212> DNA
 <213> Fowlpox virus
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 cgaatgtatt ttatattct a 81
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 <211> 118
 <212> DNA
 <213> Cercopithecine herpesvirus 7
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 <212> DNA
 <213> Cercopithecine herpesvirus 7
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 <211> 88
 <212> DNA
 <213> Cowpox virus
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 gagagaaaga gaataaaaaat attttgt 88
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<211> 76
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 <213> Cowpox virus
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 <212> DNA
 <213> Cowpox virus
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 tatcgattca gacacacgct ataag 85
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 aaattttctt ttccaa 76
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 <211> 92
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 <213> Ectromelia virus
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 atctttgaaa tctttacttg atcaggataa aatcc 95
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 <211> 79
 <212> DNA
 <213> Cucumber green mottle mosaic virus

<400> 1152
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 caaaattaag taatcccgt 79
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 <213> Cucumber green mottle mosaic virus
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 <213> Rana tigrina ranavirus
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 <210> 1157
 <211> 130
 <212> DNA
 <213> Cucumber fruit mottle mosaic virus
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 <213> Cucumber fruit mottle mosaic virus
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 aaagattctg cctcactctt actttt 86
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 <212> DNA
 <213> Cucumber fruit mottle mosaic virus

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 <211> 98
 <212> DNA
 <213> Rift Valley fever virus
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 <212> DNA
 <213> Rift Valley fever virus
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 atgaaaagac tccatctcgt aagggccact aacatccaac tctat 105
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 <211> 58
 <212> DNA
 <213> Rift Valley fever virus
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 <212> DNA
 <213> Odontoglossum ringspot virus
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 <212> DNA
 <213> Odontoglossum ringspot virus
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 <211> 105
 <212> DNA

<213> Odontoglossum ringspot virus
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<213> Yaba-like disease virus
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 <213> Blackcurrant reversion virus
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 <213> A-2 plaque virus
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 <213> A-2 plaque virus
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 <213> Human enterovirus C
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<213> Human enterovirus C
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 <212> DNA
 <213> Human enterovirus C
 <400> 1266
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 tctgtacaca tgggtgcgat ggtcac 86
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 aatgg 125
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 <213> Beet virus Q
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 agtagttaac agaaataaga aactattatt 90
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 <213> Saimiriine herpesvirus 2
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 <211> 87
 <212> DNA
 <213> Grapevine fleck virus
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 <211> 86
 <212> DNA
 <213> Swinepox virus
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 <213> Swinepox virus
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 <211> 96
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 <213> Vaccinia virus
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 aacatggaga cgctgatat gtaggcattc ttcatt 96
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 <212> DNA
 <213> Vaccinia virus
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 tgcattgttc ataaccacac gaacatgtcg cagtaagata 100
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 <211> 59
 <212> DNA
 <213> Yaba-like disease virus
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 <210> 1284
 <211> 91
 <212> DNA
 <213> Yaba-like disease virus
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 aaaaaagaaa gttatacact gttttgtaga t 91
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 <212> DNA
 <213> Yaba-like disease virus
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 <211> 98
 <212> DNA
 <213> Yaba-like disease virus
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atgttaggaa ccaaaatgta aacttttta aatctaga 98
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<211> 130
<212> DNA
<213> Yaba-like disease virus
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aattaagaga 130
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<211> 61
<212> DNA
<213> Human herpesvirus 5
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<210> 1289
<211> 92
<212> DNA
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<210> 1290
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<212> DNA
<213> Human herpesvirus 5
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<212> DNA
<213> Foot-and-mouth disease virus SAT 2 (FMDV-SAT2)
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<212> DNA
<213> Foot-and-mouth disease virus SAT 2 (FMDV-SAT2)
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tgtcctcg 128
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<213> Foot-and-mouth disease virus SAT 2 (FMDV-SAT2)

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 <212> DNA
 <213> Foot-and-mouth disease virus SAT 2 (FMDV-SAT2)
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 <211> 87
 <212> DNA
 <213> Human adenovirus D
 <400> 1295
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 aaaccatctg acactacaac ctcatac 87
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 <211> 74
 <212> DNA
 <213> Human adenovirus D
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 <211> 68
 <212> DNA
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 <212> DNA
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 <212> DNA
 <213> Foot-and-mouth disease virus C
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 <212> DNA
 <213> Foot-and-mouth disease virus C
 <400> 1301
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 ggtctggcaa gcaaacttgt attctc 86
 <210> 1302
 <211> 65
 <212> DNA
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 <210> 1303
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 <212> DNA
 <213> Foot-and-mouth disease virus O
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 gaccttcttt tcaccgttgt aaagtgtgaa ttccatcttc ccttgtgttc 110
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 <213> Foot-and-mouth disease virus O
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 <211> 83
 <212> DNA
 <213> Foot-and-mouth disease virus O
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 cagaggttag gcagtgccga aca 83
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 <213> Melanoplus sanguinipes entomopoxvirus
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 <210> 1307
 <211> 130
 <212> DNA
 <213> Melanoplus sanguinipes entomopoxvirus
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aatgttaaaa 130
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 <212> DNA
 <213> Garlic latent virus
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 ccaagat 67
 <210> 1309
 <211> 95
 <212> DNA
 <213> Garlic latent virus
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 <212> DNA
 <213> Garlic latent virus
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 <212> DNA
 <213> Garlic latent virus
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 <211> 83
 <212> DNA
 <213> Myxoma virus
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 <213> Myxoma virus
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 <213> Myxoma virus
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 <212> DNA
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 <212> DNA
 <213> Human adenovirus A
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 <212> DNA
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 <212> DNA
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 <212> DNA
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<212> DNA
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<211> 89
<212> DNA
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<212> DNA
<213> Variola virus
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<211> 101
<212> DNA
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<212> DNA
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<211> 111
<212> DNA
<213> Garlic virus A
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 <212> DNA
 <213> Fowlpox virus
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 <212> DNA
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<211> 66
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 <211> 87
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 <213> Triatoma virus
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 gttc 64
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<211> 70

<212> DNA

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gaaactgtc 70

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<211> 98

<212> DNA

<213> Duck adenovirus 1

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<211> 111

<212> DNA

<213> Human herpesvirus 6

<400> 1352

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<211> 120

<212> DNA

<213> Human herpesvirus 6

<400> 1353

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<212> DNA

<213> Human herpesvirus 6

<400> 1354

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<211> 115

<212> DNA

<213> Human herpesvirus 6

<400> 1355

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<211> 76

<212> DNA

<213> Human herpesvirus 6

<400> 1356

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 <212> DNA
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 gtgagagata gcttgcttta acacatatcc cacaggttt 99
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 acatagcttt tccaacaagc aactagc 87
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 <212> DNA
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 gctgaccac tagccggag tacagga 88
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<211> 106
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 <211> 96
 <212> DNA
 <213> Human herpesvirus 1
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 cggagccgtt ggtgataaga tctcaaagcc ggatcc 96
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 <211> 98
 <212> DNA
 <213> Himetobi P virus
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 agatcctgta acacatagta taagtcgatt taatccag 98
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 <213> Himetobi P virus
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 cttatcttct aaataatcag atct 84
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 <211> 86
 <212> DNA
 <213> Himetobi P virus
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 gaaagtgatg aggcatatc gcaatt 86
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 <212> DNA
 <213> Himetobi P virus
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 tagggggaga tatatggtag tcgcagtga 90
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 <212> DNA
 <213> Himetobi P virus
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 ca 122
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<211> 72
 <212> DNA
 <213> Himetobi P virus
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 caagctctc ca 72
 <210> 1372
 <211> 129
 <212> DNA
 <213> Himetobi P virus
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 agatcggaa 129
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 <211> 93
 <212> DNA
 <213> Himetobi P virus
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 acatttcac catcttacta ccagcgaaat cag 93
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 <211> 80
 <212> DNA
 <213> Cercopithecine herpesvirus 7
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 gaagagttgt attttgtatt 80
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 <211> 69
 <212> DNA
 <213> Cercopithecine herpesvirus 7
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 tgggtgatt 69
 <210> 1376
 <211> 65
 <212> DNA
 <213> Cercopithecine herpesvirus 7
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 ttgaa 65
 <210> 1377
 <211> 120
 <212> DNA
 <213> Wheat streak mosaic virus
 <400> 1377
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<211> 94
 <212> DNA
 <213> Wheat streak mosaic virus
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 <211> 72
 <212> DNA
 <213> Wheat streak mosaic virus
 <400> 1379
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 gagcttgccc tc 72
 <210> 1380
 <211> 65
 <212> DNA
 <213> Wheat streak mosaic virus
 <400> 1380
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 cgtgc 65
 <210> 1381
 <211> 100
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 1381
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 tacatccggc aaatgggttg ctcacttttc tctctttgt 100
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 <211> 116
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 1382
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 <210> 1383
 <211> 116
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 1383
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 agttgctcaa gcagaacgctc tgttaccact aactcttttg ttaactgctc taatat 116
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 <211> 58
 <212> DNA
 <213> Perina nuda picorna-like virus
 <400> 1384
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 <210> 1385
 <211> 93
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<213> Perina nuda picorna-like virus

<400> 1385

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<210> 1386

<211> 86

<212> DNA

<213> Perina nuda picorna-like virus

<400> 1386

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cactagtcca ttgaaagtaa tcgctc 86

<210> 1387

<211> 126

<212> DNA

<213> Perina nuda picorna-like virus

<400> 1387

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gctgtc 126

<210> 1388

<211> 91

<212> DNA

<213> Perina nuda picorna-like virus

<400> 1388

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accgcatagt caaacccctt aacacaggag t 91

<210> 1389

<211> 117

<212> DNA

<213> Perina nuda picorna-like virus

<400> 1389

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ctgagggtgcc agaacgaaat ttgagcaaag tcgaataccc aacaagcgca ttgatcc 117

<210> 1390

<211> 60

<212> DNA

<213> Perina nuda picorna-like virus

<400> 1390

gtcaatagga ataaattggc gtttaagaa acttgtaaca ccagatttat ccctattgac 60

<210> 1391

<211> 103

<212> DNA

<213> Perina nuda picorna-like virus

<400> 1391

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accggcacat gaaaaacggc cacatttaca taaatattgg gaa 103

<210> 1392

<211> 100

<212> DNA

<213> Perina nuda picorna-like virus

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 <211> 65
 <212> DNA
 <213> acute bee paralysis virus
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 ttggg 65
 <210> 1394
 <211> 110
 <212> DNA
 <213> acute bee paralysis virus
 <400> 1394
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 cttagaaatc actttggacc acttatcaaa tacatatcc tcatgcatag 110
 <210> 1395
 <211> 122
 <212> DNA
 <213> acute bee paralysis virus
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 gg 122
 <210> 1396
 <211> 88
 <212> DNA
 <213> acute bee paralysis virus
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 ttccatctaa ctgagtcaag tccgggga 88
 <210> 1397
 <211> 130
 <212> DNA
 <213> acute bee paralysis virus
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 tacgtgtata 130
 <210> 1398
 <211> 131
 <212> DNA
 <213> Bean yellow mosaic virus
 <400> 1398
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 aattgtatgt tggccttca ggtctctct tttggcctgt atgcgaggtt ttctaattgt 120
 tcttttgtaa t 131
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<212> DNA
 <213> Bean yellow mosaic virus
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 <210> 1400
 <211> 68
 <212> DNA
 <213> Bean yellow mosaic virus
 <400> 1400
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 cgtgggtc 68
 <210> 1401
 <211> 69
 <212> DNA
 <213> Bean yellow mosaic virus
 <400> 1401
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 aagtcacca 69
 <210> 1402
 <211> 61
 <212> DNA
 <213> Ryegrass mosaic virus
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 t 61
 <210> 1403
 <211> 74
 <212> DNA
 <213> Ryegrass mosaic virus
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 <210> 1404
 <211> 129
 <212> DNA
 <213> Ryegrass mosaic virus
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 aagtaagat 129
 <210> 1405
 <211> 87
 <212> DNA
 <213> Ryegrass mosaic virus
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 gttaagtttc atagttcgtc catcaac 87
 <210> 1406
 <211> 110
 <212> DNA

<213> Hepatitis GB virus A
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 <210> 1407
 <211> 55
 <212> DNA
 <213> Hepatitis GB virus A
 <400> 1407
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 <210> 1408
 <211> 76
 <212> DNA
 <213> Hepatitis GB virus A
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 aggaggcggt gctcca 76
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 <211> 87
 <212> DNA
 <213> Hepatitis GB virus A
 <400> 1409
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 aatcaaagca agtggcatcc acagtta 87
 <210> 1410
 <211> 81
 <212> DNA
 <213> Clover yellow vein virus
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 <210> 1411
 <211> 72
 <212> DNA
 <213> Clover yellow vein virus
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 tgagaaagtt gc 72
 <210> 1412
 <211> 62
 <212> DNA
 <213> Clover yellow vein virus
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 ta 62
 <210> 1413
 <211> 60
 <212> DNA
 <213> Clover yellow vein virus
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<210> 1414

<211> 65

<212> DNA

<213> Clover yellow vein virus

<400> 1414

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tttca 65

<210> 1415

<211> 88

<212> DNA

<213> Clover yellow vein virus

<400> 1415

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actgtgcccc tctttaatg tgctaaca 88

<210> 1416

<211> 72

<212> DNA

<213> Clover yellow vein virus

<400> 1416

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ttatgtcgcc aa 72

<210> 1417

<211> 77

<212> DNA

<213> Potato virus A

<400> 1417

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caactogaat ctctact 77

<210> 1418

<211> 67

<212> DNA

<213> Potato virus A

<400> 1418

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ccagctg 67

<210> 1419

<211> 75

<212> DNA

<213> Potato virus A

<400> 1419

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<211> 74

<212> DNA

<213> Potato virus A

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 <210> 1422
 <211> 63
 <212> DNA
 <213> Potato virus A
 <400> 1422
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 gaa 63
 <210> 1423
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 <212> DNA
 <213> Potato virus A
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 tga 123
 <210> 1424
 <211> 111
 <212> DNA
 <213> Bean common mosaic necrosis virus
 <400> 1424
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 <212> DNA
 <213> Bean common mosaic necrosis virus
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 <212> DNA
 <213> Bean common mosaic necrosis virus
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gcaatgt 127

<210> 1428

<211> 61

<212> DNA

<213> Bean common mosaic necrosis virus

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c 61

<210> 1429

<211> 62

<212> DNA

<213> Pepper mottle virus

<400> 1429

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tt 62

<210> 1430

<211> 131

<212> DNA

<213> Pepper mottle virus

<400> 1430

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gacgccacta gacatgactg gtaaattga cgcaaagcaa tacagagcag cttcagtga 120

tatcattga g 131

<210> 1431

<211> 109

<212> DNA

<213> Pepper mottle virus

<400> 1431

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atgcaacacc ggccgcaatg atcgcatgc gaacaatgag tgattatt 109

<210> 1432

<211> 110

<212> DNA

<213> Pepper mottle virus

<400> 1432

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<210> 1433

<211> 60

<212> DNA

<213> Pepper mottle virus

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<210> 1434

<211> 55

<212> DNA

<213> Pepper mottle virus

<400> 1434

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<211> 71
 <212> DNA
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 atcgcttcg t 71
 <210> 1436
 <211> 85
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 1436
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 aactacacag ctgcatggtg tcttg 85
 <210> 1437
 <211> 122
 <212> DNA
 <213> Equine herpesvirus 2
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 gg 122
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 <212> DNA
 <213> Equine herpesvirus 2
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 gaactctacc cgggg 75
 <210> 1439
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 <212> DNA
 <213> Equine herpesvirus 2
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 <211> 131
 <212> DNA
 <213> Equine herpesvirus 2
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 acccaccaga g 131
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 <212> DNA
 <213> Equine herpesvirus 2
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 tcagaagtct ccggacgggtg ttttc 85

<210> 1442
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 <212> DNA
 <213> Equine herpesvirus 2
 <400> 1442
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 <212> DNA
 <213> Equine herpesvirus 2
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 gcagactctc 130
 <210> 1444
 <211> 83
 <212> DNA
 <213> Equine herpesvirus 2
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 tgagatcttg tgcagtgttt tgt 83
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 <211> 84
 <212> DNA
 <213> Equine herpesvirus 2
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 ttcctatct tcgcggtgtt ttgt 84
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 <211> 70
 <212> DNA
 <213> Equine herpesvirus 2
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 tgtctccgc 70
 <210> 1447
 <211> 83
 <212> DNA
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 aacgcttttt gaaagccgat acc 83
 <210> 1448
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 <212> DNA
 <213> Equine herpesvirus 2
 <400> 1448
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<210> 1449
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 <212> DNA
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 <400> 1449
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 tgggtgtct at 72
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 <211> 84
 <212> DNA
 <213> Equine herpesvirus 2
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 cagaccatta ctgctcgtgt ggac 84
 <210> 1451
 <211> 87
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 1451
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 caaccctgac gatgcacagt gtttga 87
 <210> 1452
 <211> 70
 <212> DNA
 <213> Equine herpesvirus 2
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 cttaggacca 70
 <210> 1453
 <211> 83
 <212> DNA
 <213> Equine herpesvirus 2
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 cctctcctcc acaccgagtc cca 83
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 <211> 62
 <212> DNA
 <213> Infectious flacherie virus
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 gt 62
 <210> 1455
 <211> 74
 <212> DNA
 <213> Infectious flacherie virus
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 agtgtaaagc gtcg 74
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<211> 84
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1456
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 atatctgttt gaatgctctc atct 84
 <210> 1457
 <211> 66
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1457
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 cagttg 66
 <210> 1458
 <211> 57
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1458
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 <210> 1459
 <211> 62
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1459
 ggctatgtat ggggctttc caatggaggc caaatgcttg aaaggctcca ttctaataag 60
 cc 62
 <210> 1460
 <211> 106
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1460
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 cagtttcatt acgtgtttca acctaaaca cggactcca gttgac 106
 <210> 1461
 <211> 61
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1461
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 c 61
 <210> 1462
 <211> 59
 <212> DNA
 <213> Cocksfoot streak virus (CSV)
 <400> 1462
 gtttaaggaa acctctcca tcggacggat ttctgcttc agagaggcgt tccataaac 59
 <210> 1463
 <211> 89
 <212> DNA
 <213> Cocksfoot streak virus (CSV)

<400> 1463
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 ccaaagtcc taagcatttc tggatttga 89
 <210> 1464
 <211> 80
 <212> DNA
 <213> Brome streak mosaic virus
 <400> 1464
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 agcaacggcg ttattgagct 80
 <210> 1465
 <211> 95
 <212> DNA
 <213> Brome streak mosaic virus
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 cgagccattc gttgtcctgg ttaagtttt ccatg 95
 <210> 1466
 <211> 121
 <212> DNA
 <213> Brome streak mosaic virus
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 acgcccgcact ttccatttgg ctgcgctttt gttacgctcg ttgatcaag ttgctcttt 120
 c 121
 <210> 1467
 <211> 124
 <212> DNA
 <213> Brome streak mosaic virus
 <400> 1467
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 gaatggcttt ttctgcgcac atctgcgcac ttccggtcat cagatcgtag attccactg 120
 tgtt 124
 <210> 1468
 <211> 68
 <212> DNA
 <213> Brome streak mosaic virus
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 ttgtgagc 68
 <210> 1469
 <211> 130
 <212> DNA
 <213> Brome streak mosaic virus
 <400> 1469
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 aattttccca 130
 <210> 1470
 <211> 103

<212> DNA
 <213> Gallid herpesvirus 2
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 taatgggtgac cattacatcg gctggatcca atcgaacaac ctg 103
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 <211> 69
 <212> DNA
 <213> Gallid herpesvirus 2
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 gcttgagtg 69
 <210> 1472
 <211> 91
 <212> DNA
 <213> Gallid herpesvirus 2
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 gaattataat agagacccca tattctagag c 91
 <210> 1473
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 <212> DNA
 <213> Gallid herpesvirus 2
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 cgagtctgtc ataacttcat aaatagtctt gtcca 95
 <210> 1474
 <211> 97
 <212> DNA
 <213> Plum pox virus
 <400> 1474
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 atcgggtctg ctgtgaatga tcgagtttta ttacgct 97
 <210> 1475
 <211> 119
 <212> DNA
 <213> Plum pox virus
 <400> 1475
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 gtaaaagttc cagttgatcc tgcacgaca tccctgtctc tgtttgtgt gactagcgc 119
 <210> 1476
 <211> 82
 <212> DNA
 <213> Plum pox virus
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 ttgcgtgttt tcgttccat cc 82
 <210> 1477
 <211> 79
 <212> DNA

<213> Plum pox virus
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 tagcaactga gacttcgcc 79
 <210> 1478
 <211> 115
 <212> DNA
 <213> Johnsongrass mosaic virus
 <400> 1478
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 atgatccact aaaattttg gtatttcgc ttgtaatgt tctggataga atatt 115
 <210> 1479
 <211> 98
 <212> DNA
 <213> Johnsongrass mosaic virus
 <400> 1479
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 actgtccagg gtcctttgag atgattctgg tagaactg 98
 <210> 1480
 <211> 79
 <212> DNA
 <213> Johnsongrass mosaic virus
 <400> 1480
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 ggaccagctt cttacagg 79
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 <211> 51
 <212> DNA
 <213> Johnsongrass mosaic virus
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 <210> 1482
 <211> 64
 <212> DNA
 <213> Alcelaphine herpesvirus 1
 <400> 1482
 gtacaagtc atgtaatta gttgtaaat tcaatctgca ttagtctca gctgtacatt 60
 gtac 64
 <210> 1483
 <211> 82
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 cagggcctga ggtcaatag ac 82
 <210> 1484
 <211> 75
 <212> DNA
 <213> Alcelaphine herpesvirus 1
 <400> 1484

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 agggctctg tgtag 75
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 <211> 60
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 <210> 1486
 <211> 131
 <212> DNA
 <213> Aphid lethal paralysis virus
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 acagacacac g 131
 <210> 1487
 <211> 131
 <212> DNA
 <213> Aphid lethal paralysis virus
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 gttatatcgg cgtctgtagt gaaattgaat gcagtaacat aaaatgcaa aatcatatca 120
 ataaatgcgt t 131
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 <211> 75
 <212> DNA
 <213> Aphid lethal paralysis virus
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 ctagtctaa gttat 75
 <210> 1489
 <211> 129
 <212> DNA
 <213> Aphid lethal paralysis virus
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 tacgttgta 129
 <210> 1490
 <211> 89
 <212> DNA
 <213> Aphid lethal paralysis virus
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 cctaccaaca gagtgctgat aatccttca 89
 <210> 1491
 <211> 67
 <212> DNA
 <213> Aphid lethal paralysis virus

<400> 1491
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 atcctaa 67
 <210> 1492
 <211> 131
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 1492
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 <211> 122
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 1493
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 <210> 1494
 <211> 127
 <212> DNA
 <213> Potato virus V
 <400> 1494
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 gcatacctca cagctagaac tgcattgac agataagggtg tcaaagagct gtcgaactga 120
 gatccgt 127
 <210> 1495
 <211> 78
 <212> DNA
 <213> Potato virus V
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 cagtaatgta tgggtgcct 78
 <210> 1496
 <211> 79
 <212> DNA
 <213> Potato virus V
 <400> 1496
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 cactatgagt gttccatta 79
 <210> 1497
 <211> 80
 <212> DNA
 <213> Potato virus V
 <400> 1497
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 cattcatcaa ttatcacaaa 80
 <210> 1498
 <211> 67

<212> DNA
 <213> Parsnip yellow fleck virus
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 gaagaattga aaagagtctt gtttgggtt ttccataaat ttgtccaag gctctctct 60
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 <210> 1499
 <211> 58
 <212> DNA
 <213> Parsnip yellow fleck virus
 <400> 1499
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 <210> 1500
 <211> 71
 <212> DNA
 <213> Parsnip yellow fleck virus
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 ccatgaaggg c 71
 <210> 1501
 <211> 88
 <212> DNA
 <213> Parsnip yellow fleck virus
 <400> 1501
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 cctcttcac cacaaacctg tattcaat 88
 <210> 1502
 <211> 58
 <212> DNA
 <213> Parsnip yellow fleck virus
 <400> 1502
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 <210> 1503
 <211> 76
 <212> DNA
 <213> Pea seed-borne mosaic virus
 <400> 1503
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 ttgtttcccc tcatt 76
 <210> 1504
 <211> 58
 <212> DNA
 <213> Pea seed-borne mosaic virus
 <400> 1504
 gtcactgaaa tgcgccatta tctgtctgaa agttggacgc gcattatcca tcaactggc 58
 <210> 1505
 <211> 104
 <212> DNA
 <213> Pea seed-borne mosaic virus
 <400> 1505
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cctatcagag ccaaacatca ttgccaacaa tgccatcaat gcaa 104
 <210> 1506
 <211> 54
 <212> DNA
 <213> Ectromelia virus
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 <210> 1507
 <211> 62
 <212> DNA
 <213> Ectromelia virus
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 gt 62
 <210> 1508
 <211> 83
 <212> DNA
 <213> Ectromelia virus
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 tggatgcacc attggtcccg gag 83
 <210> 1509
 <211> 91
 <212> DNA
 <213> Cowpox virus
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 cctcgtttcc tgtattcttt ttaagatcga g 91
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 <212> DNA
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 caactgatta atgagatctt ctattttatc attttocaga tgatatgtat gtc 113
 <210> 1511
 <211> 51
 <212> DNA
 <213> Camelpox virus
 <400> 1511
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 <210> 1512
 <211> 92
 <212> DNA
 <213> Ectromelia virus
 <400> 1512
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<212> DNA
 <213> Camelpox virus
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 <213> Ectromelia virus
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 <210> 1515
 <211> 102
 <212> DNA
 <213> Ectromelia virus
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 <210> 1516
 <211> 109
 <212> DNA
 <213> Ectromelia virus
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 <211> 60
 <212> DNA
 <213> Ectromelia virus
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 <210> 1518
 <211> 64
 <212> DNA
 <213> Cowpox virus
 <400> 1518
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 tatt 64
 <210> 1519
 <211> 62
 <212> DNA
 <213> Cowpox virus
 <400> 1519
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 tc 62
 <210> 1520
 <211> 79
 <212> DNA
 <213> Cowpox virus

<400> 1520

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ttcggctgcc agagtgtcc 79

<210> 1521

<211> 130

<212> DNA

<213> Cowpox virus

<400> 1521

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atccttatat 130

<210> 1522

<211> 102

<212> DNA

<213> Cowpox virus

<400> 1522

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<210> 1523

<211> 116

<212> DNA

<213> Cowpox virus

<400> 1523

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<210> 1524

<211> 92

<212> DNA

<213> Monkeypox virus

<400> 1524

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<210> 1525

<211> 102

<212> DNA

<213> Monkeypox virus

<400> 1525

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<210> 1526

<211> 104

<212> DNA

<213> Monkeypox virus

<400> 1526

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aagtcactcg actagataaa ctatcagtaa gttttataga gata 104

<210> 1527

<211> 98

<212> DNA

<213> Monkeypox virus

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 <211> 65
 <212> DNA
 <213> Variola virus
 <400> 1528
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 ctttg 65
 <210> 1529
 <211> 91
 <212> DNA
 <213> Vaccinia virus
 <400> 1529
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 cctcgtttcc tgtattctt ttaagatcga g 91
 <210> 1530
 <211> 63
 <212> DNA
 <213> Variola virus
 <400> 1530
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 tcc 63
 <210> 1531
 <211> 93
 <212> DNA
 <213> Variola virus
 <400> 1531
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 attttattga ggtttctgac aattacttg acc 93
 <210> 1532
 <211> 102
 <212> DNA
 <213> Variola virus
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 <212> DNA
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 <212> DNA
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 <400> 1555
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<212> DNA
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 <212> DNA
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 attataggtt ctttt 75
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 <212> DNA
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 atctaaacat 130
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 <212> DNA
 <213> Rhopalosiphum padi virus
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 cacattttcg 130
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 <211> 130
 <212> DNA
 <213> Rhopalosiphum padi virus
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 <212> DNA
 <213> Rhopalosiphum padi virus
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 <211> 62
 <212> DNA
 <213> Rhopalosiphum padi virus
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62

<210> 1563

<211> 104

<212> DNA

<213> Rhopalosiphum padi virus

<400> 1563

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aatttaggt ctgcaaatgt gttgttttg tccaacaagg aagc 104

<210> 1564

<211> 60

<212> DNA

<213> Rhopalosiphum padi virus

<400> 1564

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<210> 1565

<211> 93

<212> DNA

<213> Rhopalosiphum padi virus

<400> 1565

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cgtaacttt tccccatca tcaacataga tgc 93

<210> 1566

<211> 131

<212> DNA

<213> Rhopalosiphum padi virus

<400> 1566

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<211> 70

<212> DNA

<213> Saimiriine herpesvirus 2

<400> 1567

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tgaggattt 70

<210> 1568

<211> 73

<212> DNA

<213> Saimiriine herpesvirus 2

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<211> 75

<212> DNA

<213> Saimiriine herpesvirus 2

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 <213> Saimiriine herpesvirus 2
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 <211> 83
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 <213> Saimiriine herpesvirus 2
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 <212> DNA
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 <212> DNA
 <213> Ateline herpesvirus 3
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 <212> DNA
 <213> Ateline herpesvirus 3
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 <212> DNA
 <213> Ateline herpesvirus 3
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 <212> DNA
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 <211> 70
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 <213> Leek yellow stripe potyvirus
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 <211> 93
 <212> DNA
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 <212> DNA
 <213> Leek yellow stripe potyvirus
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<210> 1584

<211> 124

<212> DNA

<213> Human adenovirus E

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<211> 91

<212> DNA

<213> Human adenovirus E

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<212> DNA

<213> Human adenovirus E

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<211> 120

<212> DNA

<213> Human adenovirus E

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<211> 82

<212> DNA

<213> Human adenovirus E

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<212> DNA

<213> Taura syndrome virus

<400> 1589

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<211> 53

<212> DNA

<213> Taura syndrome virus

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 <213> Chimpanzee cytomegalovirus
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 <212> DNA
 <213> Chimpanzee cytomegalovirus
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 <212> DNA
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 <212> DNA
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 <212> DNA
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 cttaaactcg 130
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 <212> DNA
 <213> Human herpesvirus 8
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 <212> DNA
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 <211> 104
 <212> DNA
 <213> Human herpesvirus 8
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 gccagtcgca tggc 74
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 <212> DNA
 <213> Cell fusing agent virus
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 <211> 70
 <212> DNA
 <213> Cell fusing agent virus
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 <211> 79
 <212> DNA
 <213> Dengue virus
 <400> 1630
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 tgaggagaca gcaggatct 79
 <210> 1631
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 <212> DNA
 <213> Dengue virus
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 agctgccacg actctagtgg gggct 85
 <210> 1632
 <211> 97
 <212> DNA
 <213> Dengue virus
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<210> 1633
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 <212> DNA
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 <400> 1634
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 <211> 110
 <212> DNA
 <213> Human herpesvirus 8
 <400> 1635
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 <212> DNA
 <213> Human herpesvirus 8
 <400> 1636
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 caacgcta atcgatctggg c 81
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 <212> DNA
 <213> Human herpesvirus 8
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 gagcgtgcgc 130
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 <211> 87
 <212> DNA
 <213> Yellow fever virus
 <400> 1638
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 cctctggagg aaaagcagag aaccact 87
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 <212> DNA
 <213> Yellow fever virus
 <400> 1639
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 ttcacatca ttggtgagg cgat 84

<210> 1640
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 <212> DNA
 <213> Yellow fever virus
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 ctacagcatc 70
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 <211> 94
 <212> DNA
 <213> Yellow fever virus
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 <211> 123
 <212> DNA
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 gtg 123
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 <211> 105
 <212> DNA
 <213> Molluscum contagiosum virus
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 <211> 77
 <212> DNA
 <213> Molluscum contagiosum virus
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 agagagtca cgagcgc 77
 <210> 1645
 <211> 109
 <212> DNA
 <213> Molluscum contagiosum virus
 <400> 1645
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 gacaagtagc gcgcggccat gtgtacgcag tgccggatgg cggggaagc 109
 <210> 1646
 <211> 125
 <212> DNA
 <213> Molluscum contagiosum virus
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gcggc 125

<210> 1647

<211> 104

<212> DNA

<213> Cercopithecine herpesvirus 7

<400> 1647

aacaacgcgt acctttccg gtggacaaaa gcgagtcag gcaaataatg ccttcta 60

gggaaatatt tcttcgccg tgttacccg ctgtctgtat tgtt 104

<210> 1648

<211> 130

<212> DNA

<213> Cercopithecine herpesvirus 7

<400> 1648

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aacatgttt gtattgtaa atgtctccc caacccact gtaatacagt taatattgat 120

ggcactatat 130

<210> 1649

<211> 55

<212> DNA

<213> Cercopithecine herpesvirus 7

<400> 1649

cgttgtata cactaagacg ttacatgttt ttatgtcgt ctatgtaagc gtgcg 55

<210> 1650

<211> 75

<212> DNA

<213> Cercopithecine herpesvirus 7

<400> 1650

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atagtcccg gggga 75

<210> 1651

<211> 103

<212> DNA

<213> infectious spleen and kidney necrosis virus

<400> 1651

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caccgtgtc ttgtgcaccg gttgtatt gataatctgc acg 103

<210> 1652

<211> 67

<212> DNA

<213> infectious spleen and kidney necrosis virus

<400> 1652

ggtaagaga ctctcagaa cacagtgcc ccaccatgtg cacagtgacc tgccgggtcag 60

gctgacc 67

<210> 1653

<211> 60

<212> DNA

<213> infectious spleen and kidney necrosis virus

<400> 1653

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<210> 1654

<211> 103
 <212> DNA
 <213> Human adenovirus D
 <400> 1654
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 ggccctgtac tcgaagctgt aaatctgctt gagccggcgg tcc 103
 <210> 1655
 <211> 59
 <212> DNA
 <213> Human adenovirus D
 <400> 1655
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 <210> 1656
 <211> 85
 <212> DNA
 <213> Human adenovirus D
 <400> 1656
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 gtatcacagc acacggatta aagga 85
 <210> 1657
 <211> 130
 <212> DNA
 <213> Human adenovirus D
 <400> 1657
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 <210> 1658
 <211> 61
 <212> DNA
 <213> Tick-borne encephalitis virus
 <400> 1658
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 g 61
 <210> 1659
 <211> 72
 <212> DNA
 <213> Tick-borne encephalitis virus
 <400> 1659
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 cggcattctg tc 72
 <210> 1660
 <211> 86
 <212> DNA
 <213> Tick-borne encephalitis virus
 <400> 1660
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 ctccaccctc attcactagt tccgga 86
 <210> 1661
 <211> 52

<212> DNA
 <213> Viral hemorrhagic septicemia virus
 <400> 1661
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 <210> 1662
 <211> 131
 <212> DNA
 <213> Viral hemorrhagic septicemia virus
 <400> 1662
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 tctgtgcgag g 131
 <210> 1663
 <211> 131
 <212> DNA
 <213> Viral hemorrhagic septicemia virus
 <400> 1663
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 tgatttgaa gagggccaag tactccacat atgttactgc gccaaagctt gccccccaa 120
 ggaactcatt c 131
 <210> 1664
 <211> 88
 <212> DNA
 <213> Viral hemorrhagic septicemia virus
 <400> 1664
 gcctcggacc tgtgtcaatg tggacatcct ggaggatgat ggcgtctgcg ttgtgtccc 60
 agtctctga ttttagtccc ctaagggc 88
 <210> 1665
 <211> 86
 <212> DNA
 <213> Viral hemorrhagic septicemia virus
 <400> 1665
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 agacgggagt gccttttagt cagagt 86
 <210> 1666
 <211> 130
 <212> DNA
 <213> Viral hemorrhagic septicemia virus
 <400> 1666
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 aattgtcggg gtccgtctc ccgatggtg tgaacggagg tgaggttgca cacgttgtcc 120
 attcttgcca 130
 <210> 1667
 <211> 83
 <212> DNA
 <213> Vesicular stomatitis Indiana virus
 <400> 1667
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 atgaactgtg aatcaaccca ttc 83
 <210> 1668

<211> 77
 <212> DNA
 <213> Vesicular stomatitis Indiana virus
 <400> 1668
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 ttcttcaaa cctttac 77
 <210> 1669
 <211> 61
 <212> DNA
 <213> Vesicular stomatitis Indiana virus
 <400> 1669
 tcggcatgag tagattttct atacgccaaag tctccatata gaaaacctat acatctgccg 60
 a 61
 <210> 1670
 <211> 107
 <212> DNA
 <213> Vesicular stomatitis Indiana virus
 <400> 1670
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 tcatcagct caagttgcat atcgggtcca ccattttaat caagtca 107
 <210> 1671
 <211> 87
 <212> DNA
 <213> Vesicular stomatitis Indiana virus
 <400> 1671
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 agatgggatt ggcttgacat gatgtta 87
 <210> 1672
 <211> 87
 <212> DNA
 <213> Vesicular stomatitis Indiana virus
 <400> 1672
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 gccgagcagg atggcctctt tatgaga 87
 <210> 1673
 <211> 63
 <212> DNA
 <213> Chimpanzee cytomegalovirus
 <400> 1673
 cgtaggccac gcacgtgttc gacgtgtagc ccagcccat gtcaacggtg ttgatgttct 60
 gcg 63
 <210> 1674
 <211> 81
 <212> DNA
 <213> Chimpanzee cytomegalovirus
 <400> 1674
 ggaccctgcg tcggtcgca cgtaacgttg aaacgcagga cgcagtcctg gtacagcgtg 60
 agcgacgaca gcgtcaggtc c 81
 <210> 1675
 <211> 130

<212> DNA
 <213> Chimpanzee cytomegalovirus
 <400> 1675
 ggtagttggc gttggtcacg gtgctcttga agagccgcag cgtctctcg tagtcgggcg 60
 gcggccgtag ccgcacgtgc tccatgatct gccaggcgcg cagctcgtgg aaggggccccg 120
 gcgccagccc 130
 <210> 1676
 <211> 79
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1676
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 acatcacacg attgtttg 79
 <210> 1677
 <211> 62
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1677
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 tg 62
 <210> 1678
 <211> 76
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1678
 gtgagctaca caccctttg tcccgttgca gcacgataaa tcgtattacg ttgcagcacg 60
 atttagtgag ctacgc 76
 <210> 1679
 <211> 73
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1679
 gttgcagcac gatttagtga gctacaaacc ctttgtccc cttgcagcac gataaatcgt 60
 attacgttgc agc 73
 <210> 1680
 <211> 73
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1680
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 attacgttgc agc 73
 <210> 1681
 <211> 73
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1681
 gttgcagcac gatttagtga gctacacacg ctttgtccc cttgcagcac gataaatcgt 60
 attacgttgc agc 73
 <210> 1682
 <211> 130

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1682

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cacatttttg tcccttgca gcacgataaa tcgtattacg ttgcagcacg atttagtgag    120
ctgcacaccc                                     130
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<210> 1683

<211> 94

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1683

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taaatcgat tacgttgacg cacgatttag tgagctacac acccttttgcg ccccttgacg    60
cacgataaat cgtattacgt tgcagcacga tta                                     94
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<210> 1684

<211> 94

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1684

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taaatcgat tacgttgacg cacgatttag tgagctgcac accctttcgt ccccttgacg    60
cacgataaat cgtattacgt tgcagcacga ttg                                     94
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<210> 1685

<211> 94

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1685

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cacgataaat cgtgttacgt tgcagcacga tta                                     94
```

<210> 1686

<211> 93

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1686

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acaataaatc gtgttacgt gcagcacgat tta                                     93
```

<210> 1687

<211> 94

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1687

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cacgataaat cgtgttacgt tgcagcacga tta                                     94
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<210> 1688

<211> 74

<212> DNA

<213> Ectocarpus siliculosus virus

<400> 1688

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<210> 1689

<211> 113

<212> DNA
 <213> Ectocarpus siliculosus virus
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 cctctgaagc acgataaat gtgttacgtt gcagcacgat ttagtgagct gca 113
 <210> 1690
 <211> 114
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1690
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 ccccttcag cacgataaat cgtattacgt tgcagcacga ttagtgagc tgca 114
 <210> 1691
 <211> 116
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1691
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 ccccttcag cacgataaat cgtattacgt tgcagcacga ttagtgagc tatgca 116
 <210> 1692
 <211> 114
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1692
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 <210> 1693
 <211> 115
 <212> DNA
 <213> Ectocarpus siliculosus virus
 <400> 1693
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 aaagatgtca aatttgaat ttgcactgg atccaatctg ttgttcggt caaca 115
 <210> 1694
 <211> 80
 <212> DNA
 <213> Bovine adenovirus B
 <400> 1694
 gagggagagt cagtggccgc taaacaaaaa acacaatcct gctttttat gttctctta 60
 ttaccgtgc gcgccccctc 80
 <210> 1695
 <211> 130
 <212> DNA
 <213> Semliki forest virus
 <400> 1695
 agcaactcca cagccgtcct catgtcaatg gcttctgga tttctctc ccaactttg 60
 tctctgcagt agatggcac gtcagcgcc gtggcgcca ttgctgtgaa tagatgggtg 120
 agggattgct 130
 <210> 1696
 <211> 122

<212> DNA

<213> Semliki forest virus

<400> 1696

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atctaggacc gccgtagagg tgtataacag gtcctctcaa ttctttaaac gccttaatgt    60
ccctcgccaa ggtggtcatg gctatgagga tacttttgca gccctctacc tcatacctag    120
at                                     122
```

<210> 1697

<211> 118

<212> DNA

<213> Semliki forest virus

<400> 1697

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ggccctgcat acgccatccc ctacagtcc acgggcggtta gctgcggtta ccacagccgc    60
ttctgtgcac gtggctatgt ctgctctctt aactctgtag gatggtgcac acccggcc     118
```

<210> 1698

<211> 113

<212> DNA

<213> Sindbis virus

<400> 1698

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aagtatcctt ttagctaag cctctacac ggtcctgagg tgctaactct gatgtcatcc    60
atggtgcctt cttaacggg gtgatcctgc ttaagcgaca ttagcggtta ctt          113
```

<210> 1699

<211> 81

<212> DNA

<213> Sindbis virus

<400> 1699

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cgtggtgcca gttatagaat ccttcggggg gttcactggg gtaggtgaat gcctcacttc    60
tcattgtgac tggcaactgt g                                     81
```

<210> 1700

<211> 56

<212> DNA

<213> Sindbis virus

<400> 1700

```
gatggtgtac acaggatggc gatggtagta atgctgtact atttcgtgtg gccatc     56
```

<210> 1701

<211> 67

<212> DNA

<213> Sindbis virus

<400> 1701

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ggcgtatgaga tccttgctag tcaaggaggt agcttgaatg totccaaacg ctctgggtt    60
catcgct                                     67
```

<210> 1702

<211> 103

<212> DNA

<213> Sindbis virus

<400> 1702

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gtcgtacact gtgcaaggaa ttttttacc gtgaacggga ggtagatcat attttcccg     60
tcccacgaat ttgggttta tcttgcgggc cagtgtacat gac                    103
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<210> 1703

<211> 67

<212> DNA

<213> Molluscum contagiosum virus
 <400> 1703
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 gcatgtg 67
 <210> 1704
 <211> 80
 <212> DNA
 <213> Molluscum contagiosum virus
 <400> 1704
 gccgggcttg agcttgccgg cctcgaagta gttgttctcg accaggctca cgatgaggct 60
 ggccagcacg cgcgcgcgg 80
 <210> 1705
 <211> 111
 <212> DNA
 <213> Rat cytomegalovirus
 <400> 1705
 gcccttgaag atgcacacgg cggattgtc gtcgggcgag atgtgcaca ccacgaacag 60
 cggctgctcc gccacgatgt ccgagatctg ccggatcatc accagcaggg c 111
 <210> 1706
 <211> 66
 <212> DNA
 <213> Rat cytomegalovirus
 <400> 1706
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 ggacgc 66
 <210> 1707
 <211> 66
 <212> DNA
 <213> Myxoma virus
 <400> 1707
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 cgacgt 66
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 <213> Rabies virus
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 <212> DNA
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 <212> DNA
 <213> Rabies virus
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 <212> DNA
 <213> Rabies virus
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 <211> 82
 <212> DNA
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 <212> DNA
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 <211> 89
 <212> DNA
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 <211> 76
 <212> DNA
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 <210> 1726
 <211> 70
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 <213> Human herpesvirus 3
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 <211> 94
 <212> DNA
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 <210> 1732
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<212> DNA
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 caaaca 126
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 <212> DNA
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 tagatatcaa ttgt 74
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 <211> 114
 <212> DNA
 <213> Camelpox virus
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 <211> 58
 <212> DNA
 <213> Camelpox virus
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 <210> 1736
 <211> 129
 <212> DNA
 <213> Camelpox virus
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 <211> 130
 <212> DNA
 <213> Camelpox virus
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 <211> 77
 <212> DNA
 <213> Camelpox virus
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<211> 72
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 <210> 1740
 <211> 59
 <212> DNA
 <213> Camelpox virus
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 <210> 1741
 <211> 130
 <212> DNA
 <213> Camelpox virus
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 <212> DNA
 <213> Camelpox virus
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 tcgataa 67
 <210> 1743
 <211> 126
 <212> DNA
 <213> Camelpox virus
 <400> 1743
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 ccatga 126
 <210> 1744
 <211> 130
 <212> DNA
 <213> Camelpox virus
 <400> 1744
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 gagataaaac ttttttacg actccatcag aaagagggtt aatatttttg tgagaccatc 120
 gaagagagaa 130
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 <211> 94
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1745
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 attactatcc aattacaata aatatcttag ctgt 94

<210> 1746
 <211> 64
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1746
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 tgtg 64
 <210> 1747
 <211> 83
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1747
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 gcatcacct cagtctctc aag 83
 <210> 1748
 <211> 65
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1748
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 ttgc 65
 <210> 1749
 <211> 81
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1749
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 cccctctctc cactggaatc c 81
 <210> 1750
 <211> 83
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1750
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 tagcaatgat acaatcagtg gta 83
 <210> 1751
 <211> 122
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1751
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 cctctgac atgtctgtg tggtttct ctaattgg taccctaagc ttagggcttc 120
 ta 122
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 <211> 85
 <212> DNA
 <213> Bovine viral diarrhea virus genotype 2 (BVDV-2)
 <400> 1752
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 actagtagat ccttccggc tgtga 85

<210> 1753
 <211> 58
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1753
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 <210> 1754
 <211> 116
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1754
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 <211> 129
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1755
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 acgaggta 129
 <210> 1756
 <211> 109
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1756
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 <211> 130
 <212> DNA
 <213> pestivirus type 1
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 tcagcgaagt 130
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 <211> 82
 <212> DNA
 <213> pestivirus type 1
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 gaaagtagta gtacctccga ca 82
 <210> 1759
 <211> 90
 <212> DNA
 <213> Cryphonectria hypovirus 1
 <400> 1759
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 gtcgtgcaat tgtgattcgc gctgtaaggt 90

<210> 1760
 <211> 62
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 tt 62
 <210> 1761
 <211> 82
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 gccatcttgc gctgtctaca at 82
 <210> 1762
 <211> 130
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 <212> DNA
 <213> Cryphonectria hypovirus 1
 <400> 1763
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 <211> 83
 <212> DNA
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 <211> 85
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 <211> 64
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 <210> 1768
 <211> 72
 <212> DNA
 <213> Cryphonectria hypovirus 1
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 <211> 102
 <212> DNA
 <213> Fowlpox virus
 <400> 1769
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 cgttactgtt tctatatctt ttattcttac tctatgaaga ct 102
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 <212> DNA
 <213> Fowlpox virus
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 <211> 90
 <212> DNA
 <213> Fowlpox virus
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 <212> DNA
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 <210> 1773
 <211> 103
 <212> DNA
 <213> Fowlpox virus
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<211> 70
 <212> DNA
 <213> Fowlpox virus
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 <210> 1775
 <211> 89
 <212> DNA
 <213> Fowlpox virus
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 agatattaga gaataagaat gatcgcata 89
 <210> 1776
 <211> 76
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1776
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 atagtcttta ccctct 76
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 <211> 78
 <212> DNA
 <213> Rana tigrina ranavirus
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 <211> 88
 <212> DNA
 <213> Rana tigrina ranavirus
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 <211> 64
 <212> DNA
 <213> Rana tigrina ranavirus
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 <211> 70
 <212> DNA
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<212> DNA
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 <211> 88
 <212> DNA
 <213> Rana tigrina ranavirus
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 <211> 67
 <212> DNA
 <213> Rana tigrina ranavirus
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 <211> 116
 <212> DNA
 <213> Rana tigrina ranavirus
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 <211> 68
 <212> DNA
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 <210> 1786
 <211> 79
 <212> DNA
 <213> Tupaia herpesvirus
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 <210> 1787
 <211> 122
 <212> DNA
 <213> Tupaia herpesvirus
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<212> DNA
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 <212> DNA
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 <210> 1795
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 <212> DNA
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 <212> DNA
 <213> Equine herpesvirus 1
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 <212> DNA
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 <212> DNA
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 <210> 1799
 <211> 88
 <212> DNA
 <213> Equine herpesvirus 1
 <400> 1799
 gtcgtctacg cgggttgccg gggctgctgc gctagcaaaa atcgtgtctg ctggtacggc 60
 tgccgcgac tcaggagcga gcgacgac 88
 <210> 1800
 <211> 71
 <212> DNA
 <213> Equine herpesvirus 1
 <400> 1800
 tgcgatagct tacatctatg ggtggatcta ataaaattag ctcaacaacc ttggattcag 60
 cttaatcgc a 71
 <210> 1801
 <211> 100
 <212> DNA
 <213> Equine herpesvirus 1
 <400> 1801
 tgcgctgttg gcccgacac ggtattgtgg ttgatttggg ggtacatgag ttgaggtcca 60
 ccccatcgcc ggcgactaga ttcgtggggc aagcagcgca 100
 <210> 1802
 <211> 75
 <212> DNA
 <213> Camelpox virus
 <400> 1802

aataactaat ggcaaatgta taaaacaaca aaattatact agagtgtgta aagttaatat 60
ttctattag ttgtt 75
<210> 1803
<211> 121
<212> DNA
<213> Variola virus
<400> 1803
agtgacatta gtagggatag aatgttgagc taattttgt aaataactat ctataaaaag 60
attatacaaa gttttaaact ctttagtttc tgccatttat ccagttctgag aaaatgtccc 120
t 121
<210> 1804
<211> 80
<212> DNA
<213> Variola virus
<400> 1804
cacagtttt aatttcttg gtaataaaat tattcactat atcagtatct tctttatcta 60
ccagagattt tactaacttg 80
<210> 1805
<211> 112
<212> DNA
<213> Cryphonectria hypovirus
<400> 1805
cgtcgaccga tcaagtattc tcagcctgtg atgtctcacc aagccgccgc aatctgtggc 60
ttcaaggagg gtgagtacat cgtggatgac gaggaccaga agaggatcga cg 112
<210> 1806
<211> 131
<212> DNA
<213> Cryphonectria hypovirus
<400> 1806
gcagggtcag gtatgccatt gtcacaggcc atggctcgca tctgggatga actacacgac 60
ttacgtctcc gcgaaggagg ccagttcatt atagcagatg ccaaggcata tgacagcaag 120
tgcaagcctg c 131
<210> 1807
<211> 95
<212> DNA
<213> Variola virus
<400> 1807
gccaattcca attgtgtcc gtattgtatt agagtatcga tatgagtaat ggtgtccttg 60
cgttttctg atagaatgcg agcagcgatt ttggc 95
<210> 1808
<211> 82
<212> DNA
<213> Cryphonectria hypovirus
<400> 1808
gctgtaatcc aaacgaatcc taactggaag gtcaactact gttcgactcc aaggcaggaa 60
gcgttttga aatggattaa gc 82
<210> 1809
<211> 75
<212> DNA
<213> Cryphonectria hypovirus

<400> 1809
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 ctggacgttc tgacc 75
 <210> 1810
 <211> 72
 <212> DNA
 <213> Cryphonectria hypovirus
 <400> 1810
 gtcgaggggtg tagcggccgg tcgttcaatg tctctccgg gatttttggc cggtcggtac 60
 gataccatcg at 72
 <210> 1811
 <211> 60
 <212> DNA
 <213> Vaccinia virus
 <400> 1811
 tggtagtga atattcatgt tgaacataaa actaatattt tatttcaaaa ttattacca 60
 <210> 1812
 <211> 99
 <212> DNA
 <213> Variola virus
 <400> 1812
 tgtccaagat agagagctcc ttgggtgaat ccatctctat gtttcagttt aaccaagaaa 60
 cagtcagctg gtctaaaatt tccatctcta tctaataca 99
 <210> 1813
 <211> 60
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1813
 ctcgaagtct ttgttttat acacgcacta atcgcgtaat acaagtaatg ttattcgtag 60
 <210> 1814
 <211> 128
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1814
 ggcgatgcc gatgcattct cgttttgcg ttaatatcta ctccgtgggc taataatagt 60
 ttaatgatac tcagctggg ataaggagat ttcagataca gatgtagcag attgtgtcca 120
 tatacgtc 128
 <210> 1815
 <211> 131
 <212> DNA
 <213> Rabbit fibroma virus
 <400> 1815
 tagagaacac attgatgcgt ttgactttg ttaatatata gtaagaactt acatgatcca 60
 tagtgataca cttacaagta tagttctttt atttaagttt atgaagttat atgtataaaa 120
 attgttcttt a 131
 <210> 1816
 <211> 80
 <212> DNA
 <213> Camelpox virus
 <400> 1816

cacagtttt aatttcttg gtaatgaaat tattcactat atcagtatct tctttatcta 60
 ccagagattt tactaacttg 80
 <210> 1817
 <211> 95
 <212> DNA
 <213> Camelpox virus
 <400> 1817
 gccaaatcca attgtgtct gtattgtatt agagtatcga tatgagcaat ggtgtccttg 60
 tgtttctctg atagaatgcg agcagcgatt ttggc 95
 <210> 1818
 <211> 72
 <212> DNA
 <213> Camelpox virus
 <400> 1818
 gccgggcgga gccgaacatt ctccaatatt caattttgt atatctataa tgttattaac 60
 ctccgcatac gc 72
 <210> 1819
 <211> 63
 <212> DNA
 <213> Camelpox virus
 <400> 1819
 ggtggaacgt atattttatt taaggactta acaattgtct gtaaaccaca attgcttcc 60
 gcc 63
 <210> 1820
 <211> 130
 <212> DNA
 <213> Camelpox virus
 <400> 1820
 tccagatgct atgatattga attggaaaaa taacaaatct attttgatt ttgcaagga 60
 ttggttccat aactaaatta acaatagtag taatttttt tcagttatca tctatatgaa 120
 tgtatttga 130
 <210> 1821
 <211> 115
 <212> DNA
 <213> Fowlpox virus
 <400> 1821
 aatcaatagt atagttttat ttttattacg tatattcact ttctccatt gtctaataat 60
 agttcaaag ttctagaag aatgaaaaac gtagaataac ggcgtatcgt tgatt 115
 <210> 1822
 <211> 99
 <212> DNA
 <213> Fowlpox virus
 <400> 1822
 agagaagcta gtacatctgt tataatagct tccatatttt tcttatccgc caagaacata 60
 taatagctat tttatctat tttagaaaac aagctctct 99
 <210> 1823
 <211> 130
 <212> DNA
 <213> Fowlpox virus
 <400> 1823

agtaaatcg ttaagcaaag aagtaaaatc ttcgtcttta gatattctg gatatacttt 60
 aaatagtaca tgcgagaaaa agtggaagtc gtaataccaa ttctgttctt tgtaatagc 120
 ggttacagct 130
 <210> 1824
 <211> 66
 <212> DNA
 <213> Fowlpox virus
 <400> 1824
 gatgttctat aaataattta ttcagataac atatattgac gaataatttt atttattag 60
 gccatt 66
 <210> 1825
 <211> 77
 <212> DNA
 <213> Fowlpox virus
 <400> 1825
 gctgtagatg taaccgagta tgcgattgcc ataaataatc ctagaaaatc aacgtatatt 60
 tctttacttt ttacagc 77
 <210> 1826
 <211> 87
 <212> DNA
 <213> Cowpea mottle virus
 <400> 1826
 ctgaagaaga tttaggggac tcattccagg atcagcgacg acgctttcgt tgctttgtat 60
 catggcagga ggaacacaat ctatcag 87
 <210> 1827
 <211> 109
 <212> DNA
 <213> Cowpea mottle virus
 <400> 1827
 ggcttcgcg tgtccaacta ggggtgccta aggcgtgtgc cagggtttaa tactagtata 60
 gttcgtggcg aacaccctga catgctgac acgcctagga caggaagcc 109
 <210> 1828
 <211> 84
 <212> DNA
 <213> Chimpanzee cytomegalovirus
 <400> 1828
 ctgggtatgc agcatgaggt agttgttgat cactcgtctt taagggtgga cgacggatca 60
 ctcttctcat cgcccttgtc ccgg 84
 <210> 1829
 <211> 50
 <212> DNA
 <213> Chimpanzee cytomegalovirus
 <400> 1829
 ctgttcgcc acttatcgta cagtttctgt gggatacgta ggcaaacag 50
 <210> 1830
 <211> 67
 <212> DNA
 <213> Chimpanzee cytomegalovirus
 <400> 1830
 ggcgcatctg gaggccgttc tgtaggatgt tgtactgcat cactgtaaaa ttacgaatct 60

ccgtgcc 67

<210> 1831

<211> 109

<212> DNA

<213> Chimpanzee cytomegalovirus

<400> 1831

ggtgatgagg caggtgaaac ccgtgatgcc gatgaaggac atttctgcga taaaggcaaa 60

gtaacgaact tcgtcgatca tcacggcctc gctgaagctg catgtcacc 109

<210> 1832

<211> 94

<212> DNA

<213> Chimpanzee cytomegalovirus

<400> 1832

gttttaggct tagttaccgg ctcttggtgc ctcttagag tagtcgtcct ctaggcttt 60

ggcggtttaa cgatggaac cgtaagtta aaac 94

<210> 1833

<211> 90

<212> DNA

<213> Sonchus yellow net virus

<400> 1833

aacaggatgt gcttcatggt ctaggatct aatcgcttat acatgacctc tgccgtgca 60

tttgaacca tcacggtag caagtctgtt 90

<210> 1834

<211> 61

<212> DNA

<213> Sonchus yellow net virus

<400> 1834

agcctgtccc gagegttgat gtgattcctc ctagtgatgt gacaccaacg ttgaattgc 60

t 61

<210> 1835

<211> 120

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 1835

atctctgttt aatatggaaa ttaaagttat ggacccaagt ttgccatacg ttgtagtaa 60

gtttcttta gaaactgaaa tgaataactt ggtgtctgtg cctgaccta tgagagagat 120

<210> 1836

<211> 97

<212> DNA

<213> Sonchus yellow net virus

<400> 1836

attgttcgct atggcatata tatttaacgg tgaattatat cccacttccg tgctaattcc 60

catatttatt tcaatgtatg ctaacatagc aatcaat 97

<210> 1837

<211> 103

<212> DNA

<213> Sonchus yellow net virus

<400> 1837

ccccttctat aaacgcgatg tctgcgtctg gttcccttg ttgcgtttt ccgcaagcat 60

catcagtgga catcagagct tcttctgcat catagaagaa agg 103

<210> 1838
 <211> 130
 <212> DNA
 <213> Sonchus yellow net virus
 <400> 1838
 cttgtagcat actatgcagc tottcatta ctgctagtat atcatcctct aattctccat 60
 cacctgcatg atggattgca gactgtact tgctggtag tacctcagag ttcactcactg 120
 tgctcttaag 130
 <210> 1839
 <211> 67
 <212> DNA
 <213> Sonchus yellow net virus
 <400> 1839
 ggtgcaattt ccgctcgtgc aatgtgtcgt gtggatggct tatggtattg catcttgaat 60
 tagcacc 67
 <210> 1840
 <211> 91
 <212> DNA
 <213> Cowpea chlorotic mottle virus
 <400> 1840
 ggtgtgacag tttgtctga gattaattg cagaggtatc agcacatgat aaagtctgat 60
 attaaaccag ttgtctcgga tacgttacac c 91
 <210> 1841
 <211> 117
 <212> DNA
 <213> Sonchus yellow net virus
 <400> 1841
 gttgtttgca tcattatata gatcagggtg gttgattctg tcattctcta tcaaattatt 60
 caaaaattct agaggattcc atattctttg atcatcatat gttaatatgc aagcgac 117
 <210> 1842
 <211> 69
 <212> DNA
 <213> Rice yellow stunt virus
 <400> 1842
 atgtcatgac cctctctcg tcacagtcca gtgatctcat caagactgag ataataaata 60
 ttatgatat 69
 <210> 1843
 <211> 55
 <212> DNA
 <213> Rice yellow stunt virus
 <400> 1843
 ctctagatct ctggacatgc ttgacatctt ttctgcatg tcgagcaaat tagag 55
 <210> 1844
 <211> 114
 <212> DNA
 <213> Rice yellow stunt virus
 <400> 1844
 tagtggtaac atagaagctc caggtgtagt ggcttcatga tcgggggggca gttccaata 60
 ggaggtgacc tgatgcatat ccctgcacaa attgttgacg ctatccctcc acta 114
 <210> 1845

<211> 55
 <212> DNA
 <213> Rice yellow stunt virus
 <400> 1845
 tatgtggagt tgggttttta aaatatgaac aatataaaac attgataaat acata 55
 <210> 1846
 <211> 84
 <212> DNA
 <213> Rice yellow stunt virus
 <400> 1846
 tccggtgtta gatccctggt tccatcagct atgtatagta tgctgtctcg gaaaatctga 60
 tgagatctag aatatagccc tgga 84
 <210> 1847
 <211> 70
 <212> DNA
 <213> Rice yellow stunt virus
 <400> 1847
 tgtctgtctt gattagatat cctcaccgtt atgtgattgt tgtcacagat atgttcgtca 60
 gtccaagata 70
 <210> 1848
 <211> 93
 <212> DNA
 <213> Lactate dehydrogenase-elevating virus
 <400> 1848
 cactgaaca gaatagccag tgaacacaga aaaacagggg caatgcaaaa gagaacatca 60
 accttgctag catcactggc agaattctcat tca 93
 <210> 1849
 <211> 68
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 1849
 agggctctgag gggactaagt ggaggcctga agccggggtta tgatgcaggg tcctgggcct 60
 gagaccct 68
 <210> 1850
 <211> 131
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 1850
 cccggccgcc ccttgggggt ttcgggggaca cggttgctgg ctgccaagac acttagacag 60
 ccctctagtg gccaactaga tgcgggggca gccagccacc gtgtccccag aaccccccaag 120
 ggggtggccgg g 131
 <210> 1851
 <211> 103
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 1851
 cctactatgt tcttattggc ttatggccat agaccctgc ccatatcctt gaaggcagtg 60
 ggccgtgggg ttgctgtgga aacctgccca gtgacgtctt agg 103
 <210> 1852
 <211> 85

<212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 1852
 ggataatggg ggaggtccga atgggggtct gtgggctggc aggcgcggcc tgggccaat 60
 ttctgtca ctccccctct tttc 85
 <210> 1853
 <211> 109
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 1853
 gtgagtcacg gaagagggc tgaggggact aagtggaggc ctgaagccgg gttatgatgc 60
 agggctctgg gcctgagacc ccaggctct tcccttaggt gtgagtcac 109
 <210> 1854
 <211> 110
 <212> DNA
 <213> Callitrichine herpesvirus 3
 <400> 1854
 tttttagct gatgacagac aaagcatgtt cagatggta atatgtgcag ttagaataca 60
 tgactagtgt gcgtctggag gtagcattgt taaactatca gtataagaaa 110
 <210> 1855
 <211> 131
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 1855
 ggggcggaag accctcatcg ccctctgcct ggctgttcgg gccgctgacc gcctgctgtg 60
 cttgagacga gcgggcgctc acgggtaccc gatggccggg cgaggcgccc cgcccgccgt 120
 cctccgcccc c 131
 <210> 1856
 <211> 74
 <212> DNA
 <213> Fowlpox virus
 <400> 1856
 aataatacta tttagatgaa aaaaattagc ttatcaactt ctgtttcaa ttttcatcg 60
 ttcgattcat tatt 74
 <210> 1857
 <211> 96
 <212> DNA
 <213> Fowlpox virus
 <400> 1857
 attaccgtgt atataaaatc ctttatgtc attggaggc tctgaattat aataatctga 60
 tctaactgat ataacagctt ttacatattt gtagt 96
 <210> 1858
 <211> 103
 <212> DNA
 <213> Fowlpox virus
 <400> 1858
 cgtagatgg ttgataatca ccgtgtgttt ttgtatctt atcagataat gacatattg 60
 atatttaaca aagtaaaaat cgaccttat tatttatcta acg 103
 <210> 1859
 <211> 72

<212> DNA
 <213> Fowlpox virus
 <400> 1859
 gataggcaaa aaatatgttt acaactggg agaattcaa aatactgttc ggaaatatgt 60
 ttttgttta tt 72
 <210> 1860
 <211> 65
 <212> DNA
 <213> Fowlpox virus
 <400> 1860
 gattctggca tatgtcgagg ctgggtttct ttataaggaa cacaatcatc atcgtagtca 60
 tagtc 65
 <210> 1861
 <211> 86
 <212> DNA
 <213> Fowlpox virus
 <400> 1861
 gttaatatcg gtaggggtga gtatatatag accacagata tcacattgat ctccgtgtat 60
 atactacat ttttaccat aatagc 86
 <210> 1862
 <211> 70
 <212> DNA
 <213> Fowlpox virus
 <400> 1862
 ttatatttaa gtctatagg taaagcattc cagtaacat ctgtagtgat attactcaga 60
 atagatatag 70
 <210> 1863
 <211> 61
 <212> DNA
 <213> Fowlpox virus
 <400> 1863
 ttatatttc atgtagtgtc tgaacaactt gtgtatttta acgctaccct atgatgtata 60
 a 61
 <210> 1864
 <211> 96
 <212> DNA
 <213> Bovine respiratory syncytial virus
 <400> 1864
 aatgcaggtc ttggcggata gaactttga atgtattagt aaatttagct catcacatt 60
 atgattctga ggtttagatt gtaaacatta tgcatt 96
 <210> 1865
 <211> 96
 <212> DNA
 <213> Bovine respiratory syncytial virus
 <400> 1865
 aattagtga ttatacatat cttttaaat aactatatat gaacataatt gatattatat 60
 ggagggtgtg ttgtagatct gtgtagtga ttgatt 96
 <210> 1866
 <211> 69
 <212> DNA

<213> Bovine respiratory syncytial virus

<400> 1866

acaactatat agataatgtg agtttttaaa taactatatt gatattacat tacatataat 60
catgggtgt 69

<210> 1867

<211> 96

<212> DNA

<213> Bovine respiratory syncytial virus

<400> 1867

catgtggagg ccattcaaag taattatgac taaaatgaca tttttacca ttaagcaat 60
gtcccctaatt ctcatatttg cagggatttc ttcgtg 96

<210> 1868

<211> 71

<212> DNA

<213> Bovine respiratory syncytial virus

<400> 1868

gataattgat tgaatattt agctaattct gaatcactta accttttaga aaatgttatt 60
tcacaattat c 71

<210> 1869

<211> 131

<212> DNA

<213> Bovine respiratory syncytial virus

<400> 1869

gcttcgagga tagtatacac cattatgctg aatggttta ctcataaatt gcatatcacg 60
ggatatatat gtctccgtac cttaagttt atgacctata ctacgatatt cttatacaa 120
caacttaagg c 131

<210> 1870

<211> 100

<212> DNA

<213> Bovine respiratory syncytial virus

<400> 1870

tgattttgag aatacatatt acatggatat tgaaactgta agtagtcaag aacattttga 60
tgacttagta caataacatc atttcattc ttaattagca 100

<210> 1871

<211> 62

<212> DNA

<213> Newcastle disease virus

<400> 1871

cacggccaat gtggcttcat tctgtttccc tgcaagggca acatgggtcc tcattacctg 60
tg 62

<210> 1872

<211> 69

<212> DNA

<213> Newcastle disease virus

<400> 1872

cgggatgtgc tatcgaatac tgcagacgca gggttaagtc ttgcttggtc accatcaagc 60
attgtcccg 69

<210> 1873

<211> 61

<212> DNA

<213> Newcastle disease virus
 <400> 1873
 cttagtagag gtaacctcgt ggtcagcggg cactgcgaca ggcggtggg tacctgcttg 60
 g 61
 <210> 1874
 <211> 75
 <212> DNA
 <213> Newcastle disease virus
 <400> 1874
 gaaagtagaa ttctggcat attctgtat aaatcaccca tatataagac aatattgtct 60
 aggcctctta ctctc 75
 <210> 1875
 <211> 82
 <212> DNA
 <213> Newcastle disease virus
 <400> 1875
 gaagacatgt tggcagaagg ctctctcgag ttgtgcttc gggctcgac tcgagattca 60
 caccttctac ccgtgcgact tc 82
 <210> 1876
 <211> 98
 <212> DNA
 <213> Newcastle disease virus
 <400> 1876
 gctcaatca ggcagtgct aatattcttc ctcaagtact ttattaatct tggtaaagga 60
 ctggatagga tgtctgtcac acgtgccgc tgtgaggt 98
 <210> 1877
 <211> 55
 <212> DNA
 <213> Newcastle disease virus
 <400> 1877
 ggtaggataa tctgatgctc tgcccttca ggaccggagc tcgcatgtc ctacc 55
 <210> 1878
 <211> 67
 <212> DNA
 <213> Newcastle disease virus
 <400> 1878
 gtataaggag ttcccgctc ttgcacatct tacctgggt acagaaagga gatgggatgc 60
 cttatac 67
 <210> 1879
 <211> 57
 <212> DNA
 <213> Newcastle disease virus
 <400> 1879
 tggaaatgat ccgcagaaac aggggtattg tttggctct gctttgatcg gagacca 57
 <210> 1880
 <211> 64
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1880
 atgatagagt aactttgctg tctaactatt tgaacattgt tggacattaa cttttctga 60

tcat 64
 <210> 1881
 <211> 88
 <212> DNA
 <213> Garlic latent virus
 <400> 1881
 cacagcgatg atgaggaact cttgagaaa aatagtaaaa ttctaccat ttgcattcaa 60
 ggagattgtg aatttcgatt tcgctgtg 88
 <210> 1882
 <211> 84
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1882
 cagattggtg aatgctatgt attgactcga gctcttgga gctcaaaggt tttgttatgg 60
 aatacgttat attcacagag ttg 84
 <210> 1883
 <211> 72
 <212> DNA
 <213> Garlic latent virus
 <400> 1883
 ccctggctaa catgctttc acgttttga ggtatgatct caatgggcag gaaagcattt 60
 gttttgctgg gg 72
 <210> 1884
 <211> 72
 <212> DNA
 <213> Garlic latent virus
 <400> 1884
 gcactaaatg ggacaatcgc ttctgatcgg caaaagccgc ccaaacaatc gtctgcttcc 60
 aacattcagt gt 72
 <210> 1885
 <211> 77
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1885
 gtccaacggc aattaatgat aacaatatta ctataatcac tataattata gtagttatca 60
 tgatatttat ggtggat 77
 <210> 1886
 <211> 63
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1886
 tccaagtaat tcagataatt gattcatata attggtcatt gttgaatcac ttagttttt 60
 gga 63
 <210> 1887
 <211> 118
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1887
 tctattgagt tgacagatat gatactatct ttttcttgg gatctttagg tgatgtgaat 60
 ttgcccttta ttgattctag gaatttgga gctctgttgt ttgcatttc tccatgga 118

<210> 1888
 <211> 81
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1888
 tctgtatgt cataagtaat gactgaaaat aagtaggttc ttctatttt attcacctt 60
 tatgatactt agacattaag g 81
 <210> 1889
 <211> 106
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1889
 ttacatgctt gctccactct attataatt tactccagtt gactgttaca ggcaattcag 60
 catcacagac aaaaagactg atagggttcag caaactttat atgtaa 106
 <210> 1890
 <211> 69
 <212> DNA
 <213> respiratory syncytial virus
 <400> 1890
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 tatcatcag 69
 <210> 1891
 <211> 75
 <212> DNA
 <213> Sendai virus
 <400> 1891
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 gtgggacatc agcac 75
 <210> 1892
 <211> 87
 <212> DNA
 <213> Sendai virus
 <400> 1892
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<210> 1895
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 <212> DNA
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 <400> 1896
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 <210> 1897
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 <212> DNA
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 atatctcatc attaccaaatt gccatgtat atatcattgc tattctta 108
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 <212> DNA
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 tagca 65
 <210> 1900
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 <212> DNA
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 tcctaatttt tta 73
 <210> 1901
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 <212> DNA
 <213> Human parainfluenza virus 3
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<210> 1902
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 <212> DNA
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 cttt 64
 <210> 1903
 <211> 110
 <212> DNA
 <213> Human parainfluenza virus 1 strain Washington/1964
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 aatgtgataa tacaatttt tgtgtctact atatttagtg tagataagaa 110
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 <211> 131
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 <213> Human parainfluenza virus 1 strain Washington/1964
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 <212> DNA
 <213> Equine herpesvirus 1
 <400> 1905
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 <210> 1906
 <211> 127
 <212> DNA
 <213> Canine distemper virus
 <400> 1906
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 <211> 65
 <212> DNA
 <213> Canine distemper virus
 <400> 1907
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 tcatt 65
 <210> 1908
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 <212> DNA
 <213> Canine distemper virus
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acatcccgtg tc 72
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 <211> 84
 <212> DNA
 <213> Canine distemper virus
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 tattagattg actgtgttac agac 84
 <210> 1910
 <211> 84
 <212> DNA
 <213> Canine distemper virus
 <400> 1910
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 tgtcttgat gctattctg acac 84
 <210> 1911
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 <212> DNA
 <213> Canine distemper virus
 <400> 1911
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 a 61
 <210> 1912
 <211> 129
 <212> DNA
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 <400> 1912
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 gtaatgtca 129
 <210> 1913
 <211> 71
 <212> DNA
 <213> Canine distemper virus
 <400> 1913
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 <210> 1914
 <211> 79
 <212> DNA
 <213> Canine distemper virus
 <400> 1914
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 <210> 1915
 <211> 105
 <212> DNA
 <213> Simian hemorrhagic fever virus
 <400> 1915
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gatcagtgaa attaaagatg ccagttacag accttggcct tccc 105
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<211> 58
<212> DNA
<213> Human herpesvirus 4
<400> 1916
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<210> 1917
<211> 78
<212> DNA
<213> Human herpesvirus 4
<400> 1917
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cactatgtct cgcccggg 78
<210> 1918
<211> 96
<212> DNA
<213> Human herpesvirus 4
<400> 1918
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ccacgtcccc ccagacgcgc aggcacaggg tctcgg 96
<210> 1919
<211> 68
<212> DNA
<213> Human herpesvirus 4
<400> 1919
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gccacgtg 68
<210> 1920
<211> 112
<212> DNA
<213> Human herpesvirus 4
<400> 1920
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gaggcacgtc gttcgtcccg tgagtacagc tccagggagg caaagtcaat gt 112
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<212> DNA
<213> Human herpesvirus 4
<400> 1921
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gccggtcaca atctccacgc 80
<210> 1922
<211> 61
<212> DNA
<213> Human herpesvirus 4
<400> 1922
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c 61
<210> 1923

<211> 62
 <212> DNA
 <213> Human herpesvirus 4
 <400> 1923
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 ga 62
 <210> 1924
 <211> 78
 <212> DNA
 <213> Human herpesvirus 4
 <400> 1924
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 ttcttgata gagacaca 78
 <210> 1925
 <211> 106
 <212> DNA
 <213> Measles virus
 <400> 1925
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 agatctgtca taactaaata agattcagta gatatgaagt tgctgt 106
 <210> 1926
 <211> 130
 <212> DNA
 <213> Variola virus
 <400> 1926
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 caatcgacgt 130
 <210> 1927
 <211> 78
 <212> DNA
 <213> Variola virus
 <400> 1927
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 ttggatcagt ctctaagt 78
 <210> 1928
 <211> 82
 <212> DNA
 <213> Variola virus
 <400> 1928
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 tcatttccat acatgttatt at 82
 <210> 1929
 <211> 129
 <212> DNA
 <213> Variola virus
 <400> 1929
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 ctctaatg 129

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 <212> DNA
 <213> Variola virus
 <400> 1930
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 <210> 1931
 <211> 79
 <212> DNA
 <213> Variola virus
 <400> 1931
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 ggtagaagac aataatgac 79
 <210> 1932
 <211> 99
 <212> DNA
 <213> Variola virus
 <400> 1932
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 <210> 1933
 <211> 110
 <212> DNA
 <213> Variola virus
 <400> 1933
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 <212> DNA
 <213> Avian paramyxovirus 6
 <400> 1934
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 gattgaatcc atctgttttc ttttgcag tggagatggc tcccttggtc tctatgt 117
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 <212> DNA
 <213> Avian paramyxovirus 6
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 cattcccgag ttctgtgac tgcgccatc cacaattt 98
 <210> 1936
 <211> 81
 <212> DNA
 <213> Avian paramyxovirus 6
 <400> 1936
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 gtcataacct catagatga g 81
 <210> 1937

<211> 86
 <212> DNA
 <213> Avian paramyxovirus 6
 <400> 1937
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 tccacaacaa actgaggtac tactgc 86
 <210> 1938
 <211> 89
 <212> DNA
 <213> Avian paramyxovirus 6
 <400> 1938
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 gttgacatcc ctttgattgt tgcagtg 89
 <210> 1939
 <211> 61
 <212> DNA
 <213> Avian paramyxovirus 6
 <400> 1939
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 <210> 1940
 <211> 92
 <212> DNA
 <213> Avian paramyxovirus 6
 <400> 1940
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 aacgcaccca ctattgagc aagtcagcgc aa 92
 <210> 1941
 <211> 66
 <212> DNA
 <213> Macaca mulatta rhadinovirus
 <400> 1941
 ccggttctat aaactgctg tacccaaaga gagccctggc ttctcgcat agttcgtaa 60
 gaccgg 66
 <210> 1942
 <211> 75
 <212> DNA
 <213> Macaca mulatta rhadinovirus
 <400> 1942
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 aggtgggttc tcggg 75
 <210> 1943
 <211> 70
 <212> DNA
 <213> Macaca mulatta rhadinovirus
 <400> 1943
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 gtggtggtt 70
 <210> 1944
 <211> 75

<212> DNA
 <213> Macaca mulatta rhadinovirus
 <400> 1944
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 gtcgcgggttc aggtc 75
 <210> 1945
 <211> 60
 <212> DNA
 <213> Macaca mulatta rhadinovirus
 <400> 1945
 gccgtgacgg gcgggtcacct cgcgaccgag acgcggttcgc aggtcttcg tcgtcagggc 60
 <210> 1946
 <211> 104
 <212> DNA
 <213> Macaca mulatta rhadinovirus
 <400> 1946
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 cctgttgaaa gaacgtcacg gagcaatccc ggctcagtc gttt 104
 <210> 1947
 <211> 71
 <212> DNA
 <213> Camelpox virus
 <400> 1947
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 attatatatg t 71
 <210> 1948
 <211> 75
 <212> DNA
 <213> Camelpox virus
 <400> 1948
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 aaatatcttt agacc 75
 <210> 1949
 <211> 79
 <212> DNA
 <213> Camelpox virus
 <400> 1949
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 ggtagaagac aataatgac 79
 <210> 1950
 <211> 70
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1950
 agctgatctg taaaacttta ggataagact atatctgtc ctaatctcta gcaacaatac 60
 attcagact 70
 <210> 1951
 <211> 78
 <212> DNA
 <213> Rana tigrina ranavirus

<400> 1951
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 <210> 1952
 <211> 75
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1952
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 atcttaagat acgtc 75
 <210> 1953
 <211> 68
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1953
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 ctgggcgc 68
 <210> 1954
 <211> 57
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1954
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 <210> 1955
 <211> 69
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1955
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 catcatgta 69
 <210> 1956
 <211> 130
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1956
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 gtcattcaga cctgaggctc agagtctgga tcggtcagat cgaggtagca ctggactatc 120
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 <210> 1957
 <211> 88
 <212> DNA
 <213> Rana tigrina ranavirus
 <400> 1957
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 ccatctcaaa cagttggccc catctgga 88
 <210> 1958
 <211> 131
 <212> DNA
 <213> Bovine herpesvirus 4
 <400> 1958

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<210> 1959
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<212> DNA
<213> Bovine herpesvirus 4
<400> 1959
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<210> 1960
<211> 73
<212> DNA
<213> Bovine herpesvirus 4
<400> 1960
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<210> 1961
<211> 66
<212> DNA
<213> Bovine herpesvirus 4
<400> 1961
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ccttcc 66
<210> 1962
<211> 123
<212> DNA
<213> Bovine herpesvirus 4
<400> 1962
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gat 123
<210> 1963
<211> 54
<212> DNA
<213> Bovine herpesvirus 4
<400> 1963
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<210> 1964
<211> 92
<212> DNA
<213> Bovine herpesvirus 4
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<210> 1965
<211> 80
<212> DNA
<213> Bovine herpesvirus 4
<400> 1965
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<210> 1966

<211> 104

<212> DNA

<213> Bovine herpesvirus 4

<400> 1966

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tagagcatca atgagaagtt taagtctctt cttattctt tgaa 104

<210> 1967

<211> 87

<212> DNA

<213> Hendra virus

<400> 1967

agtgtacagg gtagcaagtt tatcgctctt tgatatttag gagttctata aagaattata 60

caaagagtca tatgatctct gtaaact 87

<210> 1968

<211> 123

<212> DNA

<213> Hendra virus

<400> 1968

atcgtaatca ttgagatggt ctgcatgata atttaacctc tcagtgtcat ggggtaagaa 60

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<210> 1969

<211> 90

<212> DNA

<213> Hendra virus

<400> 1969

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ttctagcatt gtccttgga tcatgtagat 90

<210> 1970

<211> 90

<212> DNA

<213> Hendra virus

<400> 1970

gccaacagc aatgctctca gaattgtaat ttattgatcc caaataatcc ccaaggctta 60

tgattatgtt tcctagaaca actgttgtgc 90

<210> 1971

<211> 118

<212> DNA

<213> Hendra virus

<400> 1971

ggagtctatt ttgtgatga tcttgggtat ctcttcac tcgttcctcaa tgtgattcaa 60

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<210> 1972

<211> 124

<212> DNA

<213> Hendra virus

<400> 1972

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 tccc 124
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 <211> 127
 <212> DNA
 <213> Hendra virus
 <400> 1973
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 <211> 57
 <212> DNA
 <213> Hendra virus
 <400> 1974
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 <210> 1975
 <211> 127
 <212> DNA
 <213> Hendra virus
 <400> 1975
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 ttgtcaatc tcgttctcc ggatgtactc actgaactgc ttgggacact gtctgcgaga 120
 gatgaca 127
 <210> 1976
 <211> 65
 <212> DNA
 <213> Nipah virus
 <400> 1976
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 cattg 65
 <210> 1977
 <211> 55
 <212> DNA
 <213> Nipah virus
 <400> 1977
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 <210> 1978
 <211> 100
 <212> DNA
 <213> Nipah virus
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 tcggatttag gattattca gtactttgt ctgcgatgtg 100
 <210> 1979
 <211> 79
 <212> DNA
 <213> Nipah virus
 <400> 1979
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ttttgatgtg ataaagttc 79
 <210> 1980
 <211> 130
 <212> DNA
 <213> Nipah virus
 <400> 1980
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 aatcccagac 130
 <210> 1981
 <211> 77
 <212> DNA
 <213> Nipah virus
 <400> 1981
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 agtacctctc caactcc 77
 <210> 1982
 <211> 91
 <212> DNA
 <213> Nipah virus
 <400> 1982
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 <210> 1983
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 <212> DNA
 <213> Nipah virus
 <400> 1983
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 agacgtcac 69
 <210> 1984
 <211> 122
 <212> DNA
 <213> Nipah virus
 <400> 1984
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 <211> 85
 <212> DNA
 <213> Nipah virus
 <400> 1985
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 caagtttgct agtcatgcct tggga 85
 <210> 1986
 <211> 103
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 <212> DNA
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 <212> DNA
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 <212> DNA
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 <212> DNA
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 <212> DNA
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 <212> DNA
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 <212> DNA
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<212> DNA
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 aatgttattc taaaactagc atctgacac 89
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 <212> DNA
 <213> Monkeypox virus
 <400> 2177
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 cagacac 67
 <210> 2178
 <211> 73
 <212> DNA
 <213> Monkeypox virus
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 agatgtaaag gta 73
 <210> 2179
 <211> 66
 <212> DNA
 <213> Cowpox virus
 <400> 2179
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 attaga 66
 <210> 2180
 <211> 95
 <212> DNA
 <213> Monkeypox virus
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 taaaaacttg tgtgaaatta tgtactagag aaaaa 95

<210> 2181
 <211> 81
 <212> DNA
 <213> Yaba-like disease virus
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 tataagttcg ttaaaaattg c 81
 <210> 2182
 <211> 97
 <212> DNA
 <213> Yaba-like disease virus
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 aaacgttaaa agaagttaca cttagccggtt ttcctg 97
 <210> 2183
 <211> 87
 <212> DNA
 <213> Yaba-like disease virus
 <400> 2183
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 ctcttcttc aatcaaaaag ttagata 87
 <210> 2184
 <211> 112
 <212> DNA
 <213> Yaba-like disease virus
 <400> 2184
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 cattataaat atctggccaa tacgttggtt tattatcttc tcttattatg gg 112
 <210> 2185
 <211> 122
 <212> DNA
 <213> Yaba-like disease virus
 <400> 2185
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 tgcacccgta aaattcttcg cgtaatatct ttagtaattc gttagattt ggtcgttgat 120
 ca 122
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 <211> 126
 <212> DNA
 <213> Cowpox virus
 <400> 2186
 aaatagatgt ttcggtgtat atagtacgat agttaatatc aataactcct ttggataata 60
 gataatctaa agattcaacg gcgtcaaaaa ttattaaatg acgaactata tgttcattat 120
 ctattt 126
 <210> 2187
 <211> 109
 <212> DNA
 <213> Cowpox virus
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ttccgcatta ggacacgtaa cagtatcatt ccaagaagta ttccatt 109
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 <211> 95
 <212> DNA
 <213> Camelpox virus
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 accttgaac ttctatacgg ggactgatca tatcc 95
 <210> 2189
 <211> 75
 <212> DNA
 <213> Cowpox virus
 <400> 2189
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 acttgactc ttca 75
 <210> 2190
 <211> 79
 <212> DNA
 <213> Cowpox virus
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 agtcattgtc tatagtaa 79
 <210> 2191
 <211> 72
 <212> DNA
 <213> Cowpox virus
 <400> 2191
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 acagaaatca aa 72
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 <211> 124
 <212> DNA
 <213> Cowpox virus
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 agaa 124
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 <211> 85
 <212> DNA
 <213> Myxoma virus
 <400> 2193
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 tggataaaa aaatggatac gcggt 85
 <210> 2194
 <211> 68
 <212> DNA
 <213> Myxoma virus
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ccgcgctcg 68

<210> 2195

<211> 119

<212> DNA

<213> Myxoma virus

<400> 2195

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aaacgattcg tcgttttcgt cgtactcgta ttctcgcga agatcgtcgg gctgctccg 119

<210> 2196

<211> 55

<212> DNA

<213> Myxoma virus

<400> 2196

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<210> 2197

<211> 68

<212> DNA

<213> Myxoma virus

<400> 2197

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tcagaatc 68

<210> 2198

<211> 64

<212> DNA

<213> Myxoma virus

<400> 2198

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cgac 64

<210> 2199

<211> 76

<212> DNA

<213> Myxoma virus

<400> 2199

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ataactttat gcccgga 76

<210> 2200

<211> 87

<212> DNA

<213> Myxoma virus

<400> 2200

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agtcgatgta ttccgttaaa tcgatga 87

<210> 2201

<211> 71

<212> DNA

<213> Ectromelia virus

<400> 2201

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gctaactcgt t 71

<210> 2202

<211> 70
 <212> DNA
 <213> Ectromelia virus
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 catatcaggt 70
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 <211> 55
 <212> DNA
 <213> Ectromelia virus
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 <210> 2204
 <211> 72
 <212> DNA
 <213> Ectromelia virus
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 taagaggctg tc 72
 <210> 2205
 <211> 90
 <212> DNA
 <213> Ectromelia virus
 <400> 2205
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 tattatatgg ttagtcagtg agcatatgac 90
 <210> 2206
 <211> 89
 <212> DNA
 <213> Ectromelia virus
 <400> 2206
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 aatgttattc taaaactagc atctgatac 89
 <210> 2207
 <211> 124
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 2207
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 gaactaatca cacatgattt cacactgtaa agaatggggg aactttctag ggttgtaag 120
 ctgt 124
 <210> 2208
 <211> 130
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 2208
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 tcgattgggtg 130
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<211> 59
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 2209
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 <210> 2210
 <211> 83
 <212> DNA
 <213> Equine herpesvirus 2
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 cacaaccctc atcttttag gcc 83
 <210> 2211
 <211> 83
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 2211
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 ttgatctca tgtatcttat gac 83
 <210> 2212
 <211> 114
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 2212
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 gaccttttgt agtatccttg cacagtttat tcttttgtt cttaatgatg ttaa 114
 <210> 2213
 <211> 60
 <212> DNA
 <213> Equine herpesvirus 2
 <400> 2213
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 <211> 85
 <212> DNA
 <213> Equine herpesvirus 2
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 taagaataat tcctaaaaga caaga 85
 <210> 2215
 <211> 106
 <212> DNA
 <213> Potato aucuba mosaic virus
 <400> 2215
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 attagatcct ttaagaaaga tagtcatgtg cttttgcctc agatt 106
 <210> 2216
 <211> 72
 <212> DNA
 <213> Potato aucuba mosaic virus

<400> 2216
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 ttgggtacc ac 72
 <210> 2217
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 <212> DNA
 <213> Potato aucuba mosaic virus
 <400> 2217
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 agttgtgtca atgatcatca a 81
 <210> 2218
 <211> 116
 <212> DNA
 <213> porcine epidemic diarrhea virus
 <400> 2218
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 acacttatca cctctcacta cgcagctgta agttttataa ggagtgttgt aatttt 116
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 <211> 67
 <212> DNA
 <213> porcine epidemic diarrhea virus
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 gttgggt 67
 <210> 2220
 <211> 81
 <212> DNA
 <213> porcine epidemic diarrhea virus
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 ttagataacg ggtaggcatc t 81
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 <211> 60
 <212> DNA
 <213> porcine epidemic diarrhea virus
 <400> 2221
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 <210> 2222
 <211> 125
 <212> DNA
 <213> porcine epidemic diarrhea virus
 <400> 2222
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 atgag 125
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 <211> 80
 <212> DNA
 <213> porcine epidemic diarrhea virus
 <400> 2223

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gtgttaggt caacaatctc 80
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<211> 58
<212> DNA
<213> porcine epidemic diarrhea virus
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<210> 2225
<211> 112
<212> DNA
<213> porcine epidemic diarrhea virus
<400> 2225
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<211> 79
<212> DNA
<213> porcine epidemic diarrhea virus
<400> 2226
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ctggcgatct gagcatagc 79
<210> 2227
<211> 122
<212> DNA
<213> porcine epidemic diarrhea virus
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actttgggta atccaaccc ataagacacg gattttcaac accatcaata aggttcttaa 120
gc 122
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<211> 104
<212> DNA
<213> porcine epidemic diarrhea virus
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catcaatctc ttcaagcact gctggacact gtgggattgt aggc 104
<210> 2229
<211> 94
<212> DNA
<213> porcine epidemic diarrhea virus
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ccacattta caatcaacca taactcatg aacc 94
<210> 2230
<211> 70
<212> DNA
<213> porcine epidemic diarrhea virus
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atggtcttac 70
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 <211> 120
 <212> DNA
 <213> porcine epidemic diarrhea virus
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 <212> DNA
 <213> porcine epidemic diarrhea virus
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 <213> Transmissible gastroenteritis virus
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 <211> 59
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 <211> 98
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 attcgtcaag attttgcatt tctgagacat caacattg 98
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 <211> 99
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 ctaatcatat taggtaaagc acggtcacac ttaggatag 99
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 <211> 68
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 gtgtatac 68
 <210> 2238

<211> 89
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 aataacatgt ctagggcaaa tgacttcat 89
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 caggtgcaat ttcttgaac 79
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 <211> 79
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 catttgccct atgactca 79
 <210> 2241
 <211> 75
 <212> DNA
 <213> Transmissible gastroenteritis virus
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 ttgactttct gtcca 75
 <210> 2242
 <211> 74
 <212> DNA
 <213> Oat chlorotic stunt virus
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 gcactgccat tgct 74
 <210> 2243
 <211> 93
 <212> DNA
 <213> Oat chlorotic stunt virus
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 acgccgagcc gcaagaggaa ggtgtaccaa cag 93
 <210> 2244
 <211> 61
 <212> DNA
 <213> Oat chlorotic stunt virus
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 <210> 2245
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<212> DNA
 <213> Alcelaphine herpesvirus 1
 <400> 2245
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 tgggt 125
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 <211> 81
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 atagcttttc cgcaagagac t 81
 <210> 2247
 <211> 69
 <212> DNA
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 cttatatgg 69
 <210> 2248
 <211> 64
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 ttgg 64
 <210> 2249
 <211> 81
 <212> DNA
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 gacaagctat tttaaatga g 81
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 <211> 70
 <212> DNA
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 attgaatgtc 70
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 <211> 52
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 <210> 2252
 <211> 84
 <212> DNA

<213> Alcelaphine herpesvirus 1
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 <211> 81
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 gtaccagtac gagtcaatgc c 81
 <210> 2254
 <211> 88
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 ctgacagtgc aagtatgcgt gaaaagcc 88
 <210> 2255
 <211> 131
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 gggtcctgct t 131
 <210> 2256
 <211> 131
 <212> DNA
 <213> Alcelaphine herpesvirus 1
 <400> 2256
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 tagagaggt a 131
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 <211> 87
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 <212> DNA
 <213> Alcelaphine herpesvirus 1
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<212> DNA
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 <211> 107
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 ttgtatcca agtttattt ttctactggt cattttaag ggactgc 107
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 <211> 81
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 <210> 2262
 <211> 69
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 <210> 2263
 <211> 83
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 agtactctgg taggagactg gca 83
 <210> 2264
 <211> 112
 <212> DNA
 <213> Alcelaphine herpesvirus 1
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 <211> 131
 <212> DNA
 <213> Alcelaphine herpesvirus 1
 <400> 2265
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 <211> 77

<212> DNA
 <213> Alcelaphine herpesvirus 1
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 <211> 131
 <212> DNA
 <213> Murine hepatitis virus
 <400> 2267
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 catgcaactc t 131
 <210> 2268
 <211> 58
 <212> DNA
 <213> Murine hepatitis virus
 <400> 2268
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 <210> 2269
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<212> DNA

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<211> 62

<212> DNA

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<212> DNA

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<213> Plautia stali intestine virus
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 <212> DNA
 <213> Himetobi P virus
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 <213> Himetobi P virus
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 <212> DNA
 <213> Himetobi P virus
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 <213> Triatoma virus
 <400> 2550
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 <211> 108
 <212> DNA
 <213> Triatoma virus
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 <211> 126
 <212> DNA
 <213> Triatoma virus
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 <212> DNA
 <213> Triatoma virus
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 <213> Triatoma virus
 <400> 2554
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<212> DNA
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 aactctct 68
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 <213> Triatoma virus
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 ctccagatga gatatggaat cctac 85
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 <212> DNA
 <213> Triatoma virus
 <400> 2558
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 atgtttccga c 131
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 <213> Triatoma virus
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 <211> 130
 <212> DNA
 <213> Triatoma virus
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 <211> 131
 <212> DNA
 <213> Triatoma virus
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 gggttttaa acttctagt gaactggtaa gaaacagatt ttggaaatg atggtgaatt 120
 cctatttgat a 131
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 <211> 120
 <212> DNA
 <213> Triatoma virus
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 <212> DNA
 <213> Triatoma virus
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 <212> DNA
 <213> Triatoma virus
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 <211> 130
 <212> DNA
 <213> Triatoma virus
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 tctatcgtgt 130
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 <211> 87
 <212> DNA
 <213> Triatoma virus
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 ctggaatgct tagaaatcat gaacttg 87
 <210> 2567
 <211> 130
 <212> DNA
 <213> Triatoma virus
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 <212> DNA
 <213> Triatoma virus
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 gcgatacggt tctga 75
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 <212> DNA
 <213> Triatoma virus
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 <211> 63
 <212> DNA
 <213> Satsuma dwarf virus
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 gct 63
 <210> 2571
 <211> 111
 <212> DNA
 <213> Satsuma dwarf virus
 <400> 2571
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 <211> 69
 <212> DNA
 <213> Satsuma dwarf virus
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 aagaaaatc 69
 <210> 2573
 <211> 74
 <212> DNA
 <213> Satsuma dwarf virus
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 <210> 2574
 <211> 63
 <212> DNA
 <213> Satsuma dwarf virus
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 gta 63
 <210> 2575
 <211> 75
 <212> DNA
 <213> Apple latent spherical virus
 <400> 2575
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 gtcactaaag acaat 75
 <210> 2576
 <211> 109
 <212> DNA
 <213> Apple latent spherical virus
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 <211> 75
 <212> DNA
 <213> Apple latent spherical virus
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 <211> 121
 <212> DNA
 <213> Apple latent spherical virus
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 <211> 62
 <212> DNA
 <213> Apple latent spherical virus
 <400> 2579
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 <210> 2580
 <211> 70
 <212> DNA
 <213> Apple latent spherical virus
 <400> 2580
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 caaattgta 70
 <210> 2581
 <211> 103
 <212> DNA
 <213> Apple latent spherical virus
 <400> 2581
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 <211> 131
 <212> DNA
 <213> Tobacco rattle virus
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 <212> DNA
 <213> Tobacco rattle virus
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 <211> 130
 <212> DNA
 <213> Tobacco rattle virus
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 cataaacggg 130
 <210> 2585
 <211> 131
 <212> DNA
 <213> Obuda pepper virus
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 aaactcagag atctgttagt ttggaagtgg taggtggtgc tgctgtaatg aatccggta 120
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 <211> 130
 <212> DNA
 <213> Obuda pepper virus
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 <212> DNA
 <213> Obuda pepper virus
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 gaggtagagt ttatgctatt tccttgc 87
 <210> 2588
 <211> 130
 <212> DNA
 <213> Obuda pepper virus
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 ctgaaaaagc 130
 <210> 2589
 <211> 91
 <212> DNA
 <213> Sugarcane striate mosaic associated virus
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 cttaaggac gggctccagc ttacgcagta g 91
 <210> 2590
 <211> 131

<212> DNA
 <213> Sugarcane striate mosaic associated virus
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 <213> Salmon pancreas disease virus
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 <210> 2592
 <211> 131
 <212> DNA
 <213> Salmon pancreas disease virus
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 <211> 70
 <212> DNA
 <213> Ljungan virus
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 <211> 129
 <212> DNA
 <213> Ljungan virus
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 <212> DNA
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 <211> 69
 <212> DNA
 <213> Ljungan virus
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<210> 2597
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 <212> DNA
 <213> Equine rhinitis A virus
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 tcacaaatgt gggagaggat ggcgagcccg gtgagacag 99
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 <211> 80
 <212> DNA
 <213> Equine rhinitis A virus
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 atttttggtt gctttgtgc 80
 <210> 2599
 <211> 64
 <212> DNA
 <213> Equine rhinitis A virus
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 <210> 2600
 <211> 103
 <212> DNA
 <213> Equine rhinitis B virus
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 <211> 98
 <212> DNA
 <213> Equine rhinitis B virus
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 <212> DNA
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 <212> DNA
 <213> Equine rhinitis B virus
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<211> 111
 <212> DNA
 <213> Equine rhinitis B virus
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 <212> DNA
 <213> Equine rhinitis B virus
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 <211> 92
 <212> DNA
 <213> Porcine enterovirus A (PEV8)
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 gatgtttag taatgatact ggaagataaa cc 92
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 <212> DNA
 <213> Porcine enterovirus A (PEV8)
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 <211> 71
 <212> DNA
 <213> Porcine enterovirus A (PEV8)
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 <211> 77
 <212> DNA
 <213> A-2 plaque virus
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 <210> 2610
 <211> 68
 <212> DNA
 <213> A-2 plaque virus
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 <210> 2611
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<212> DNA
 <213> A-2 plaque virus
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 <211> 78
 <212> DNA
 <213> Avian encephalomyelitis virus
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 ttctgagga gactgttt 78
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 <211> 129
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 <213> Avian encephalomyelitis virus
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 <212> DNA
 <213> Avian encephalomyelitis virus
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 <211> 130
 <212> DNA
 <213> Tamana bat virus
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 <212> DNA
 <213> Tamana bat virus
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 <213> Tamana bat virus
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 <212> DNA
 <213> sheeppox virus
 <400> 2622
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 <211> 63
 <212> DNA
 <213> Goatpox virus
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 atg 63
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 <211> 81
 <212> DNA
 <213> Foot-and-mouth disease virus O
 <400> 2624
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 <210> 2625

<211> 84
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 <213> Foot-and-mouth disease virus O
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 <212> DNA
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 <213> Foot-and-mouth disease virus O
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 gggtagcga 70
 <210> 2629
 <211> 129
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2629
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 cacaaaatgt aaccaccaac atcctaagta aatgcactgt acagcaagca aagaatgcgc 120
 tcaatttg 129
 <210> 2630
 <211> 69
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2630
 gaatggggag gaagactcgg aacttcattc acatgtatgg agtcgagcct gaaaattatt 60
 ccaccattc 69
 <210> 2631
 <211> 98
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2631
 gccgtattta tcttgcgaat aaggtagagc agttctcaca taggcttata ggtagtgtgt 60
 gtaatatggt tttagagatt gttagtaggt gttatggt 98
 <210> 2632

<211> 72
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2632
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 cttgtttac cc 72
 <210> 2633
 <211> 78
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2633
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 ggacattggc attcttga 78
 <210> 2634
 <211> 113
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2634
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 tgcagagata gtgttcacac ccatccttac accagatgga actgttgta aga 113
 <210> 2635
 <211> 70
 <212> DNA
 <213> Cowpea aphid-borne mosaic virus
 <400> 2635
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 acttgacaa 70
 <210> 2636
 <211> 93
 <212> DNA
 <213> Trichomonas vaginalis virus 3
 <400> 2636
 gaacaaggaa atggagctcg aactctccc acttaagaag gccccacaag ccgatctaa 60
 agtgaactgt tacgcgcgaa acgtcctgc ttc 93
 <210> 2637
 <211> 83
 <212> DNA
 <213> Trichomonas vaginalis virus 3
 <400> 2637
 gataccctac cctatgaatt aaacaagagc aaacagagct ttggacctaa tgccgagttc 60
 ttgcgcttgc ataggcgtgc ggg 83
 <210> 2638
 <211> 64
 <212> DNA
 <213> Sorghum mosaic virus
 <400> 2638
 aaccaattgt gcatcattga gaatcactcg aacgatgtga gacaatgtat gtatgcgata 60
 gggt 64
 <210> 2639
 <211> 71

<212> DNA
 <213> Sorghum mosaic virus
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 tgctaaggag g 71
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 <211> 92
 <212> DNA
 <213> Sorghum mosaic virus
 <400> 2640
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 gcagtatcag ggattagcca tgttgaccct gc 92
 <210> 2641
 <211> 75
 <212> DNA
 <213> Sorghum mosaic virus
 <400> 2641
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 ctaatggtat ggtgc 75
 <210> 2642
 <211> 73
 <212> DNA
 <213> Potato virus A
 <400> 2642
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 ttgtgatag ttg 73
 <210> 2643
 <211> 114
 <212> DNA
 <213> Potato virus A
 <400> 2643
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 caattaggcc agatatggag cataagctag atggattca agctctattt agtg 114
 <210> 2644
 <211> 67
 <212> DNA
 <213> Potato virus A
 <400> 2644
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 gcaagtt 67
 <210> 2645
 <211> 77
 <212> DNA
 <213> Potato virus A
 <400> 2645
 gagagtattg tgcagaagtg gttctgttc aagcaaaggc gtctgagcag gttaattttg 60
 agcgcatcat agctttc 77
 <210> 2646
 <211> 69
 <212> DNA

<213> Potato virus A
 <400> 2646
 gagattcgag ttgaggacca agtgagtttt caggacttcg tcaaagctca aggggaatgga 60
 tcgaatctc 69
 <210> 2647
 <211> 79
 <212> DNA
 <213> Potato virus A
 <400> 2647
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 attttggaag attcaagc 79
 <210> 2648
 <211> 100
 <212> DNA
 <213> Potato virus A
 <400> 2648
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 aagttgagat catcaccaag ggcagtgcta acaaaaagca 100
 <210> 2649
 <211> 66
 <212> DNA
 <213> Potato virus A
 <400> 2649
 tggtaaagtt catcaataca atgtagcta taacagtggc actacaattg tacatagcat 60
 ttgcca 66
 <210> 2650
 <211> 120
 <212> DNA
 <213> Cryphonectria parasitica mitovirus 1-NB631
 <400> 2650
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 atttcgacat ttctatcgg agctgggtta gtattattca ctttgagaaa caaatattac 120
 <210> 2651
 <211> 76
 <212> DNA
 <213> Cryphonectria parasitica mitovirus 1-NB631
 <400> 2651
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 gtagggcaac ccatgg 76
 <210> 2652
 <211> 130
 <212> DNA
 <213> Cryphonectria parasitica mitovirus 1-NB631
 <400> 2652
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 ctttacaggg gttcaaaga ctatagatca gaagcttctt aggaaagcaa tacatctatt 120
 gaatatcaaa 130
 <210> 2653
 <211> 76
 <212> DNA

<213> Bean common mosaic necrosis virus

<400> 2653

gagatgagga attctgaagg gttctacatg cctaggtatg gacttcttcg gaatttgagg 60
gataaaagct tggctc 76

<210> 2654

<211> 121

<212> DNA

<213> Bean common mosaic necrosis virus

<400> 2654

gggtttaaaa ggaaaatggg atggaaagaa gttctttaat gatgtcgtgg ttgccatctt 60
cacattgatt ggtggtggct ggatgttatg ggattatttc cgtcactata tgcaagaacc 120
t 121

<210> 2655

<211> 127

<212> DNA

<213> Bean common mosaic necrosis virus

<400> 2655

ggtgaatcga ttaagagaga agatctgacg cttgcttgcg tatcaaagca ggatgggaat 60
ttgtataacc cgtgctgttg tgcacgcag gatgatggca gaccgttcta ttctgagttg 120
aagagcc 127

<210> 2656

<211> 130

<212> DNA

<213> Bean common mosaic necrosis virus

<400> 2656

gtccgccttg ccaaggacta ttgccathtt ggaccactta ataagtgagg aaatcatgaa 60
gaaaaatcat ttgacacaa ttgctcctc actcacaggg cattcatttt cattggctgg 120
catcgcagat 130

<210> 2657

<211> 82

<212> DNA

<213> Ophiostoma mitovirus 3a

<400> 2657

aatgccttgt gtacttaagt tagagtcaat cacagatcct tttaaaggga ttctgatac 60
tcttctaag tccgagatca tt 82

<210> 2658

<211> 77

<212> DNA

<213> Ophiostoma mitovirus 3a

<400> 2658

ctgaatagtt gagtcttag taaattaaag gaccttcaa tggatggtag atttaatcaa 60
caagctccac taaacag 77

<210> 2659

<211> 80

<212> DNA

<213> Ophiostoma mitovirus 3a

<400> 2659

cttacgaata atgattatc taatgttga tatataacta aacagttatt tcctcattga 60
ataagattat tagtatgaag 80

<210> 2660

<211> 82
 <212> DNA
 <213> Ophiostoma mitovirus 3a
 <400> 2660
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 tgcaagataa accggtgaga ag 82
 <210> 2661
 <211> 74
 <212> DNA
 <213> Ophiostoma mitovirus 3a
 <400> 2661
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 ctataagggg agtc 74
 <210> 2662
 <211> 65
 <212> DNA
 <213> Ophiostoma mitovirus 3a
 <400> 2662
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 cttat 65
 <210> 2663
 <211> 75
 <212> DNA
 <213> Ophiostoma mitovirus 3a
 <400> 2663
 tcatcatgta attgtacaaa tagctgcaat gagagtgggt aaactcccat tcaactaatta 60
 tgcgttactt ggtga 75
 <210> 2664
 <211> 75
 <212> DNA
 <213> Ophiostoma novo-ulmi mitovirus 4-Ld
 <400> 2664
 aaggaatctt aactaatatt agacatatct atgttggtata tatgaatata ttacatatt 60
 taaaaagaat tcctt 75
 <210> 2665
 <211> 81
 <212> DNA
 <213> Ophiostoma novo-ulmi mitovirus 4-Ld
 <400> 2665
 actgataatg atcattatct aagcataaaa ggttctccaa atggaaaagc ttcaatgtct 60
 agtctatatt caattatcag t 81
 <210> 2666
 <211> 93
 <212> DNA
 <213> Ophiostoma novo-ulmi mitovirus 4-Ld
 <400> 2666
 agaaaaagta atgggtttatt atacactatc aagtatatga aagctgcaaa gcttcatata 60
 acaagatata tgtgtggtaa accattatat tct 93
 <210> 2667
 <211> 86

<212> DNA

<213> Ophiostoma novo-ulmi mitovirus 4-Ld

<400> 2667

agtctaataat gatgtctaga attgagata tggccttgct ttataggacg agtccaatgt 60
catattctac actaacattc gagact 86

<210> 2668

<211> 86

<212> DNA

<213> Ophiostoma novo-ulmi mitovirus 4-Ld

<400> 2668

gatagatttc caatattctt acaacaaaaa cttatatcat taatatattaa tgattatgag 60
tttggtaaaa attggagaaa tctatt 86

<210> 2669

<211> 84

<212> DNA

<213> Ophiostoma novo-ulmi mitovirus 4-Ld

<400> 2669

gttttatatg atgcctagta ttgagatat ggcctcgtct tcaacaacgg gaccaaagcc 60
atttactact gcaacattca aaac 84

<210> 2670

<211> 96

<212> DNA

<213> Ophiostoma novo-ulmi mitovirus 5-Ld

<400> 2670

ataatccaga attacaatga agtagagatg atcattattt gagttttaaa agctcgcccta 60
atgggtcaatc tacattacat agtagctatg gattat 96

<210> 2671

<211> 87

<212> DNA

<213> Ophiostoma novo-ulmi mitovirus 5-Ld

<400> 2671

gttaagaggt attttaaata atctaaataa ctatggaatt gtattccaag aattatttaa 60
atttcattat aaatacccac atttaac 87

<210> 2672

<211> 101

<212> DNA

<213> Ophiostoma novo-ulmi mitovirus 5-Ld

<400> 2672

tgagaaagat aaatggctct aaattcacia ttaagtatat gaaagctgtt aagcttcata 60
ttactaaata tattgcaaat gaaagattat tatcgatttc a 101

<210> 2673

<211> 115

<212> DNA

<213> Southern bean mosaic virus

<400> 2673

catagaagtt caagtaaacc cctcatggat tagcctctta ggtggctctc tcaagataaa 60
cggagatgac gcctctaatt agtctgctgt gttgggaagc tttattctt ctgtg 115

<210> 2674

<211> 119

<212> DNA

<213> Southern bean mosaic virus

<400> 2674

ctgggagttg tgggctgatg tagagatgag aattgttctg gggggcttg gccataaact 60
ggctaaagcc gccagaata ggtttcgtg ttcatgaac tcagtctcc agctctcg 119

<210> 2675

<211> 74

<212> DNA

<213> Southern bean mosaic virus

<400> 2675

tctgctctgg ttgagcgcgt cattcgcgac ataccttat aagtatgtga gaactcggct 60
gctcccagag gaga 74

<210> 2676

<211> 77

<212> DNA

<213> Phthorimaea operculella granulovirus

<400> 2676

attttatat tgtattgaat agcgtgtggg tatattgtta tacggcgctt aacatgaaat 60
ccatacaata tgaagat 77

<210> 2677

<211> 125

<212> DNA

<213> Phthorimaea operculella granulovirus

<400> 2677

gaatttgaat ttgtaaatac attgggtgag agaatgagtc gttcgcaa atattggagat 60
tacattgtat ggccagatat gagcactact ttatcggat ggatgttata ttgcgttta 120
aattt 125

<210> 2678

<211> 113

<212> DNA

<213> Phthorimaea operculella granulovirus

<400> 2678

gagtatgatc gattaaacaa attggtacaa aataatccgt ctgtgtggca agatttattg 60
ttggtgtgca cagatcgaga caatatgtac acatggatgg tcagatttta tt 113

<210> 2679

<211> 61

<212> DNA

<213> Phthorimaea operculella granulovirus

<400> 2679

gcgatttgtt gttaattgtt ttgcgcaaag aacagacgtg ttacagttg attcaaatg 60
t 61

<210> 2680

<211> 93

<212> DNA

<213> Phthorimaea operculella granulovirus

<400> 2680

gcgtagggga gtttttgga aacgtttgc gttacaattg cgacgatgag ggacaattgc 60
gctacaaacg ttgctgatc gacgacccca cgt 93

<210> 2681

<211> 63

<212> DNA

<213> Fringilla coelebs papillomavirus (FPV)
 <400> 2681
 gctctatagc ttaccattat gctatacatg ctgagcaaga taataatgcc aagctatggt 60
 tgc 63
 <210> 2682
 <211> 79
 <212> DNA
 <213> Paprika mild mottle virus
 <400> 2682
 acgtcgatcc tctaaagata atctctaagt taggtgctaa gcatataaca gatagggagc 60
 atctggaaga gtttcgtgt 79
 <210> 2683
 <211> 123
 <212> DNA
 <213> Paprika mild mottle virus
 <400> 2683
 agtaatcttc ttaaatatgt ttgtaaaact tattcccag cgtctagtag atatgtatat 60
 atgaaggaat ttctagtaac tagggtaaact acttggtttt gcaaattcac taaactagat 120
 act 123
 <210> 2684
 <211> 129
 <212> DNA
 <213> Paprika mild mottle virus
 <400> 2684
 ctaatcaca tcagaacctc tcaggccaaa gcactgacat acaataatgt gttatccttc 60
 gtcgaatcaa ttagatcgag ggtaatcatt aatgggtgtca cagcgaggtc agaatgggac 120
 gtggataag 129
 <210> 2685
 <211> 98
 <212> DNA
 <213> Paprika mild mottle virus
 <400> 2685
 gggtattcat agacgaaggt ttgatgttgc atccaggctg tgttacttt ttagtaactc 60
 taagtctgtg tgatgaagcc ttgtctttg gagatacc 98
 <210> 2686
 <211> 131
 <212> DNA
 <213> La Crosse virus
 <400> 2686
 aaccttcaaa ctcatattgc ttcaaagtc cttacaaagc ataaaaggta tatcaactta 60
 cacagaagcg ttcaaactt taggaaaaat gatggatatt ggagataagg ctattgagta 120
 tgaagaattc t 131
 <210> 2687
 <211> 93
 <212> DNA
 <213> La Crosse virus
 <400> 2687
 ggtgtattag atgtccatt gtcaatgatt agtacagttg gattggaatc tgggaattta 60
 tacttcttga taaagttgtt gagcaaatat acc 93
 <210> 2688

<211> 81
 <212> DNA
 <213> La Crosse virus
 <400> 2688
 ttctagatgc agagatggac cctagtgata ttatgggtga gacaagcgac atgagaggga 60
 ggtctatttt gacacctaga a 81
 <210> 2689
 <211> 101
 <212> DNA
 <213> Mamestra configurata nucleopolyhedrovirus B
 <400> 2689
 ctgagctata gtaaaaacga aacacccgtt gtcaaataca acaagagcca taacaacaat 60
 tgtgtgttg tcgagggtgg caatatgcta catatggccg g 101
 <210> 2690
 <211> 89
 <212> DNA
 <213> Mamestra configurata nucleopolyhedrovirus B
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 ttaaaggcaa ctatacgga cagaaaaa 89
 <210> 2691
 <211> 127
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 2691
 gattcgtaat gttcaaggct gtgctgtaca agtgcattca actggaccga cagactgcat 60
 cgattgacga tcgattctc tccaagttg agtgcattc ggacgatgcc accgagagct 120
 acgattc 127
 <210> 2692
 <211> 93
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 2692
 atgccgcta cactgtcta aactctagtc aaaagggtggc cttcagatt atacacaaac 60
 agattagcga tagctttaga ttggacacgg cat 93
 <210> 2693
 <211> 109
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 2693
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 gtttgaccg ctactgtac tcatacaggg ctactgtac atcaagtac 109
 <210> 2694
 <211> 109
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 2694
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 tgctcctcc ggtaaagagt ccaacattga aacggtagca ttgggctcg 109
 <210> 2695

<211> 123
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 2695
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 ttt 123
 <210> 2696
 <211> 88
 <212> DNA
 <213> Heliothis zea virus 1 (HZV-1)
 <400> 2696
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 ctacatctaa tgtaaatgct gagtcgac 88
 <210> 2697
 <211> 123
 <212> DNA
 <213> Chikungunya virus
 <400> 2697
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 gtcgtctccg atgaattgat ggcagccaga tgcgccactt ggatgaacat ggaagtgaag 120
 atc 123
 <210> 2698
 <211> 80
 <212> DNA
 <213> Chikungunya virus
 <400> 2698
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 aagaaagaaa actgccaaga 80
 <210> 2699
 <211> 91
 <212> DNA
 <213> Mammalian orthoreovirus 2
 <400> 2699
 cctcacgatg agcgactcgg gaagttgtat caatcttcc tgccacttgc gaaggattta 60
 ctggccccag ttgctcggca ttttatgag g 91
 <210> 2700
 <211> 85
 <212> DNA
 <213> Mammalian orthoreovirus 2
 <400> 2700
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 gatggaagtg ctggtgtgc gtatt 85
 <210> 2701
 <211> 95
 <212> DNA
 <213> Mammalian orthoreovirus 2
 <400> 2701
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 agcgccgaag ctggtcttag aggagttcgc tgaga 95

<210> 2702
 <211> 112
 <212> DNA
 <213> Tacaribe virus
 <400> 2702
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 taaaaagagg caaagtttt gaggaacc tgatcagtct tattggtaga ga 112
 <210> 2703
 <211> 130
 <212> DNA
 <213> Rachiplusia ou multiple nucleopolyhedrovirus
 <400> 2703
 gatccggctt tcaacagaaa ttaaatgac gagcgattcc aaaacttgag gcaacaatac 60
 gacgaaatgt ctagttaaata ttcagctttg gaaacgacta aaattaaaga gatggagaat 120
 atcgagatc 130
 <210> 2704
 <211> 76
 <212> DNA
 <213> Rachiplusia ou multiple nucleopolyhedrovirus
 <400> 2704
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 gaacgatcag aaaagc 76
 <210> 2705
 <211> 131
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2705
 acacatcgca aaccactctg acttaactgg tgctgcttta atatattacg ttcgcaacgg 60
 aatccccca ggcgcctg caactgctat attgaacagt atcgtaatc attgtgtct 120
 tgctgattcg t 131
 <210> 2706
 <211> 130
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2706
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 acaaattattg 130
 <210> 2707
 <211> 131
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2707
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 taagcaaatt agtaatactt tgccttctat catcaagaat cccgaactga aacgactaat 120
 cgactcacac g 131
 <210> 2708
 <211> 89
 <212> DNA
 <213> Aphid lethal paralysis virus

<400> 2708
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 cctgcacatt ataaactgcc attaacgcg 89
 <210> 2709
 <211> 125
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2709
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 agaagaacac aatcttagct gcacagaatc tattaccgcg tttgccaaa attgaaccaa 120
 tcgag 125
 <210> 2710
 <211> 83
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2710
 gctcttgat cgcaggtat tgcttctagt ctgttgac aactcgtaac atcgcttaga 60
 gcatatttg tggcaccaat agc 83
 <210> 2711
 <211> 128
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2711
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 aacaagacaa aggttcgatt gtcacgcta gagacgtagt ttaccgcaat ctttcagat 120
 tcacggtg 128
 <210> 2712
 <211> 106
 <212> DNA
 <213> Aphid lethal paralysis virus
 <400> 2712
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 atcaaccaag tcgcagattg tgattgtaac acatgtgatt gctgta 106
 <210> 2713
 <211> 131
 <212> DNA
 <213> Aphid lethal paralysis virus
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